

AGENDA

City Planning Committee Meeting

Open Portion

Monday, 24 January 2022

at 5:00 pm

via Zoom

THE MISSION

Working together to make Hobart a better place for the community.

THE VALUES		
The Council is:		
People	We care about people – our community, our customers and colleagues.	
Teamwork	We collaborate both within the organisation and with external stakeholders drawing on skills and expertise for the benefit of our community.	
Focus and Direction	We have clear goals and plans to achieve sustainable social, environmental and economic outcomes for the Hobart community.	
Creativity and Innovation	We embrace new approaches and continuously improve to achieve better outcomes for our community.	
Accountability	We are transparent, work to high ethical and professional standards and are accountable for delivering outcomes for our community.	

ORDER OF BUSINESS

Business listed on the agenda is to be conducted in the order in which it is set out, unless the committee by simple majority determines otherwise.

APOLOGIES AND LEAVE OF ABSENCE

1.	CO-OPTION OF A COMMITTEE MEMBER IN THE EVENT OF A VACANCY		
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9.	QUE	ESTION	IS WITHOUT NOTICE

Agenda (Open Portion) City Planning Committee Meeting 24/1/2022

10. (CLOSED PORTION OF THE MEETING	643
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City Planning Committee Meeting (Open Portion) held Monday, 24 January 2022 at 5:00 pm via Zoom.

This meeting of the City Planning Committee is held in accordance with a Notice issued by the Premier on 3 April 2020 under section 18 of the *COVID-19 Disease Emergency (Miscellaneous Provisions) Act 2020.*

The title Chief Executive Officer is a term of reference for the General Manager as appointed by Council pursuant s.61 of the *Local Government Act 1993* (Tas).

COMMITTEE MEMBERS

Apologies:

Deputy Lord Mayor Councillor H Burnet (Chairman) Alderman J R Briscoe L Councillor W F Harvey Alderman S Behrakis Councillor M Dutta Councillor W Coats

Leave of Absence:Nil.

NON-MEMBERS

Lord Mayor Councillor A M Reynolds Alderman M Zucco Alderman Dr P T Sexton Alderman D C Thomas Councillr J Fox Councillor Dr Z Sherlock

1. CO-OPTION OF A COMMITTEE MEMBER IN THE EVENT OF A VACANCY

2. CONFIRMATION OF MINUTES

The minutes of the Open Portion of the City Planning Committee meeting held on <u>Monday, 13 December 2021</u>, are submitted for confirming as an accurate record.

3. CONSIDERATION OF SUPPLEMENTARY ITEMS

Ref: Part 2, Regulation 8(6) of the Local Government (Meeting Procedures) Regulations 2015.

Recommendation

That the Committee resolve to deal with any supplementary items not appearing on the agenda, as reported by the Chief Executive Officer.

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4. INDICATIONS OF PECUNIARY AND CONFLICTS OF INTEREST

Ref: Part 2, Regulation 8(7) of the Local Government (Meeting Procedures) Regulations 2015.

Members of the Committee are requested to indicate where they may have any pecuniary or conflict of interest in respect to any matter appearing on the agenda, or any supplementary item to the agenda, which the Committee has resolved to deal with.

5. TRANSFER OF AGENDA ITEMS

Regulation 15 of the Local Government (Meeting Procedures) Regulations 2015.

A Committee may close a part of a meeting to the public where a matter to be discussed falls within 15(2) of the above regulations.

In the event that the Committee transfer an item to the closed portion, the reasons for doing so should be stated.

Are there any items which should be transferred from this agenda to the closed portion of the agenda, or from the closed to the open portion of the agenda?

6. PLANNING AUTHORITY ITEMS - CONSIDERATION OF ITEMS WITH DEPUTATIONS

In accordance with the requirements of Part 2 Regulation 8(3) of the *Local Government (Meeting Procedures) Regulations 2015*, the Chief Executive Officer is to arrange the agenda so that the planning authority items are sequential.

In accordance with Part 2 Regulation 8(4) of the *Local Government (Meeting Procedures) Regulations 2015*, the Committee by simple majority may change the order of any of the items listed on the agenda, but in the case of planning items they must still be considered sequentially – in other words they still have to be dealt with as a single group on the agenda.

Where deputations are to be received in respect to planning items, past practice has been to move consideration of these items to the beginning of the meeting.

RECOMMENDATION

That in accordance with Regulation 8(4) of the *Local Government (Meeting Procedures) Regulations 2015*, the Committee resolve to deal with any items which have deputations by members of the public regarding any planning matter listed on the agenda, to be taken out of sequence in order to deal with deputations at the beginning of the meeting.

7. COMMITTEE ACTING AS PLANNING AUTHORITY

In accordance with the provisions of Part 2 Regulation 25 of the *Local Government (Meeting Procedures) Regulations 2015*, the intention of the Committee to act as a planning authority pursuant to the *Land Use Planning and Approvals Act 1993* is to be noted.

In accordance with Regulation 25, the Committee will act as a planning authority in respect to those matters appearing under this heading on the agenda, inclusive of any supplementary items.

The Committee is reminded that in order to comply with Regulation 25(2), the Chief Executive Officer is to ensure that the reasons for a decision by a Council or Council Committee acting as a planning authority are recorded in the minutes.

7.1 APPLICATIONS UNDER THE HOBART INTERIM PLANNING SCHEME 2015

7.1.1 1/14 LORD STREET, 2/14 LORD STREET, 12 LORD STREET, SANDY BAY - PARTIAL DEMOLITION, ALTERATIONS, EXTENSION AND TWO MULTIPLE DWELLINGS (TWO EXISTING AND TWO PROPOSED) PLN-21-532 - FILE REF: F22/4028

Address:	1/14 Lord Street, 2/14 Lord Street, 12 Lord Street, Sandy Bay
Proposal:	Partial Demolition, Alterations, Extension and Two Multiple Dwellings (Two Existing and Two Proposed)
Expiry Date:	3 February 2022
Extension of Time:	Not applicable
Author:	Mark O'Brien

RECOMMENDATION

That pursuant to the *Hobart Interim Planning Scheme 2015*, the City Planning Committee, in accordance with the delegations contained in its terms of reference, approve the application for partial demolition, alterations, extension, and two multiple dwellings (two existing and two proposed), at 1/14 Lord Street, 2/14 Lord Street and 12 Lord Street Sandy Bay 7005 for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-532 - 1/14 LORD STREET SANDY BAY TAS 7005 - Final Planning Documents, except where modified below.

Reason for condition

To clarify the scope of the permit.

ΤW

The use and/or development must comply with the requirements of TasWater as detailed in the form Submission to Planning Authority Notice, Reference No. TWDA 2021/01404-HCC dated 23 November 2021 as attached to the permit.

Reason for condition

To clarify the scope of the permit.

PLN 1

Screening to a height of 1.7m above the finished floor level, with no more than 25% uniform transparency, must be installed and maintained along the western edge of the terrace above the garage prior to first occupation.

Reason for condition

To provide reasonable opportunity for privacy for dwellings.

PLN s1

No works are approved on 11 Duke Street as part of this planning permit.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

ENG 3a

The access driveway, and parking module (parking spaces, aisles and manoeuvring area) must be designed and constructed in accordance with Australian Standard AS/NZS 2890.1:2004 (including the requirement for vehicle safety barriers where required), or a Council approved alternate design certified by a suitably qualified engineer to provide a safe and efficient access, and enable safe, easy and efficient use.

Advice:

It is advised that designers consider the detailed design of the access and parking module prior to finalising the Finished Floor Level (FFL) of the parking spaces (especially if located within a garage incorporated into the dwelling), as failure to do so may result in difficulty complying with this condition.

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 4

The access driveway and parking module (car parking spaces, aisles and manoeuvring area) approved by this permit must be constructed to a sealed standard (spray seal, asphalt, concrete, pavers or equivalent Council approved) and surface drained to the Council's stormwater infrastructure prior to the commencement of use.

Reason for condition

To ensure the safety of users of the access driveway and parking module, and that it does not detract from the amenity of users, adjoining occupiers or the environment by preventing dust, mud and sediment transport.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and maintained until all areas of disturbance have been stabilized or re-vegetated.

Advice:

For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must

inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016.* Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the Land Use Planning and Approvals Act 1993.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

STORMWATER

Please note that in addition to a building and/or plumbing permit, development must be in accordance with the Hobart City Council's Infrastructure By law. Click here for more information.

RIGHT OF WAY

The private right of way must not be reduced, restricted or impeded in any way, and all beneficiaries must have complete and unrestricted access at all times.

You should inform yourself as to your rights and responsibilities in respect to the private right of way particularly reducing, restricting or impeding the right during and after construction.

STRATA AMENDMENT

You will be required to amend strata plan 59085 pursuant to the provisions of the *Strata Titles Act 1998* in order to reflect the completed development works.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

Attachment A:	PLN-21-532 - 1/14 LORD STREET SANDY BAY TAS 7005 - Planning Committee or Delegated Report I
Attachment B:	PLN-21-532 - 1/14 LORD STREET SANDY BAY TAS 7005 - CPC Agenda Documents I 🖀

Item No. 7.1.1



1. Executive Summary

1.1 Planning approval is sought for Partial Demolition, Alterations, Extension, and Two Multiple Dwellings (Two Existing and Two Proposed), at 1/14 Lord Street, 2/14 Lord Street and 12 Lord Street.

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- 1.2 More specifically the proposal includes:
 - Demolition of the existing dwelling and carport at the rear of the site.
 - Construction of a new double garage associated with the larger dwelling at the front of the site. The proposed garage would have an area of 65m² and a height of 2.7m with a boundary parapet wall with a maximum height of 3.2m.
 - A rooftop garden would be sited on the garage, with vegetation on the east and west sides and a 1m high balustrade around a 20m² accessible terrace in the centre.
 - A new dwelling at the rear of the site. The dwelling would have a maximum height of 5.8m with a ground floor area of 46.5m², and an upper floor area, including void and windows, of 39m².
 - The new dwelling would be two storey with the living areas on the ground floor and one bedroom on the upper level.
 - One car parking space would be allocated to the new dwelling under a carport sited to the east of the dwelling.
- 1.3 The proposal relies on performance criteria to satisfy the following standards and codes:
 - 1.3.1 Inner Residential Zone Building Envelope, Site Coverage and Private Open Space
 - 1.3.2 Parking and Access Code -Vehicle Passing
 - 1.3.3 Historic Heritage Code Heritage Precinct and Heritage Place
- 1.4 Six (6) representations (5 objecting and 1 supporting) for the proposal were received within the statutory advertising period between 30 November 2021 and 14 December 2021.
- 1.5 The proposal is recommended for approval subject to conditions.
- 1.6 The final decision is delegated to the Council's City Planning Committee, because there were 5 representations objecting to the proposal.

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2. Site Detail

2.1 The subject site is located on the northern side of Lord Street, between Grosvenor Street and Sandy Bay Road. The site consists of three strata titled lots known as 12, 14a and 14b Lord Street. The proposed development would be sited within the boundaries of the titles at 14a (also known as 1/14) and 14b (also known as 2/14) Lord Street. However, access to the site, and the proposed new car parking at the rear, would be partially over the adjoining lot at 12 York Street. There is also a third lot sited between these two lots, however, this lot has no title or owner. 14a Lord Street contains the larger, two storey dwelling at the front of the site. 14b Lord Street contains the smaller dwelling at the rear of the site.



Figure 1: Location of the subject site.

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Figure 2: Aerial image of the subject site. The proposed works would be sited on 14a and 14b Lord Street, and access would be partially over 12 Lord Street and a shared driveway with no title (red highlight).(outlined in blue).

2.2 A site visit was conducted to 14 Lord Street on 11 January 2022 at 10am.

14a



Photo 1: View of 14a (left) and 12 (right) Lord Street looking north from Lord Street



Photo 2: View of 14b Lord Street looking west from shared driveway.

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Photo 3: View of carport at 14 Lord Street (left) and rear yard at 12 Lord Street (right) looking northeast from first floor bedroom at 14a Lord St.

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Photo 4: View of roof at 14b Lord Street (right) and rear yard at 16 Lord Street (left) looking northwest from first floor bedroom at 14a Lord St.

3. Proposal

3.1 Planning approval is sought for Partial Demolition, Alterations, Extension, and Two Multiple Dwellings (Two Existing and Two Proposed), at 1/14 Lord Street, 2/14 Lord Street and 12 Lord Street.

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- 3.2 More specifically the proposal is for:
 - Demolition of the existing dwelling and carport at the rear of the site.
 - Construction of a new double garage associated with the larger dwelling at the front of the site. The proposed garage would have an area of 65m² and a height of 2.7m with a boundary parapet wall with a maximum height of 3.2m.
 - A rooftop garden would be sited on the garage, with vegetation on the east and west sides and a 1m high balustrade around a 20m² accessible terrace in the centre.
 - A new dwelling at the rear of the site. The dwelling would have a maximum height of 5.8m with a ground floor area of 46.5m², and an upper floor area, including void and windows, of 39m².
 - The new dwelling would be two storey with the living areas on the ground floor and one bedroom on the upper level.
 - One car parking space would be allocated to the new dwelling under a carport sited to the east of the dwelling.

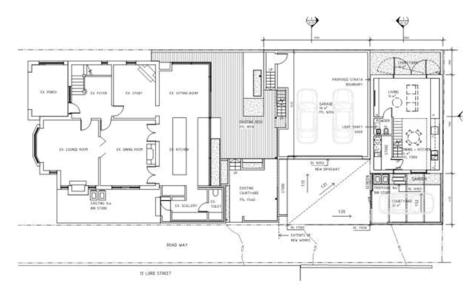


Figure 3: Ground floor plan of the proposed garage and dwelling.

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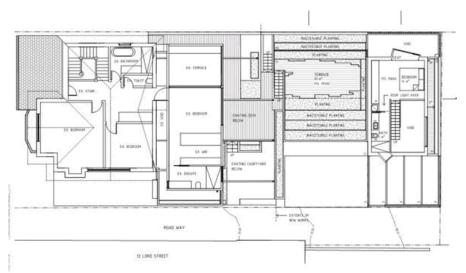
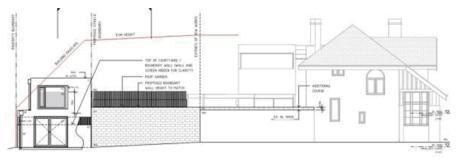
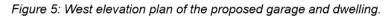


Figure 4: First floor plan of the proposed garage and dwelling.



WEST ELEVATION



4. Background

4.1 The applicant has provided confirmation via email dated 14 December 2021 that no development is proposed on 11 Duke Street as part of this application. However, the ground floor drainage plan (Aldanmark Consulting Engineers drawing sheet H2.01 - revision B) indicates that replacement of a section of earthenware stormwater pipe may extend from 14b Lord Street into 11 Duke Street. The pipe has been inspected as part of this application and is said to be in good working order. Therefore, to clarify the scope of any planning permit granted, it is recommended that a condition be included to confirm that no works are approved on 11 Duke Street as part of this application.

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- 4.2 The applicant has been advised that the owners of 12 Lord Street, which forms part of this application, are disputing that notification pursuant to Section 52 of the *Land Use Planning and Approvals Act 1993* has occurred. The application documents include an email record detailing the notification.
- 4.3 Extensions to the dwelling at 14a Lord Street were approved in 2017 (PLN-16-00570-01) and have been constructed.

5. Concerns raised by representors

- 5.1 Six (6) representations were received within the statutory advertising period between 30 November 2021 and 14 December 2021. Five (5) representations from three households and/or their representatives objected to the proposal. One (1) representation was in support of the proposal.
- 5.2 The following table outlines the concerns raised in the representations received. Those concerns which relate to a discretion invoked by the proposal are addressed in Section 6 of this report.

Amenity

Any suggestion that the development has been sited and designed with consideration of adjoining properties is disingenuous. The proposal is effectively asking neighbours to sacrifice the quiet enjoyment of their properties for a non-compliant building.

The proposal will result in an unreasonable loss of amenity to adjoining properties due to the visual impact and lack of separation between dwellings.

Privacy

The proposal, in particular the roof top terrace, will unreasonably impact on the privacy of adjoining properties by direct overlooking. The screen to this terrace is inadequate and will add to negative visual impacts.

[planner note: a condition is recommended for any planning permit granted to ensure that privacy screening be designed and constructed to meet the acceptable solution at clause 11.4.6 A1.]

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Overshadowing

The proposal will result in an unreasonable amount of overshadowing impacting on habitable rooms and private open space of adjoining properties.

Visual impact

The height of the new dwelling will result in unreasonable visual impact when viewed from adjoining properties.

A two storey dwelling at 14b Lord Street is not supported as it blocks views.

Use

The proposal appears to include storage for business, which is prohibited in the zone.

The proposed dwelling at 14b is likely to be proposed at some point as visitor accommodation, which will involve further traffic and privacy issues.

[planner note: the proposal is for multiple dwellings, a residential use. No visitor accommodation or commercial/business storage is proposed. Any storage on site will need to be associated with residential use.]

Site Coverage

There is too much development on this property given its size. It is a gross overdevelopment of the site.

Private Open Space

The new dwelling at 14b Lord Street is not provided with sufficient private open space to meet the needs of the future occupants. This private open space will also not receive adequate sunlight access.

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Invalid Application

The applicant has failed to notify all owners of the intension to lodge this application pursuant to Section 52 of the *Land Use Planning and Approvals Act 1993*.

[planner note: the application documents include email correspondence of the notification pursuant to s52. By proceeding with the Council's online application lodgement process, the applicant has also declared that such notification has occurred.]

Prior Approval

In early 2000, an approval for a two storey dwelling at 14b Lord Street was challenged, with a negotiated outcome (the existing dwelling) reached by way of mediation with the developer. This should occur again.

Parking and Access

The double garage and carport will increase traffic on the shared right of way, which has no opportunity for vehicle passing and no dedicated pedestrian access. The original right of way served less properties and the intensification of use will have an unreasonable impact on safety and amenity.

Heritage

The proposal has ignored the local heritage precinct overlay and focuses entirely on the State heritage listing with no consideration to streetscape and townscape. The degree of visibility of the new dwelling at 14b Lord Street will detrimentally impact on the very intact streetscape of Lord Street.

The proposal will further deviate from the original subdivision pattern that forms part of the significance of the heritage precinct.

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Supported

The recently completed extension to the dwelling at 14a Lord Street, a collaboration between the same owner, builder and architect as the current proposal, has won awards and praise. If permitted to go ahead, the proposal will again result in a beautiful piece of considerate, contemporary architecture.

The needs of the adjoining properties have been considered in the design and the proposal is supported.

6. Assessment

- 6.1 The *Hobart Interim Planning Scheme 2015* is a performance based planning scheme. To meet an applicable standard, a proposal must demonstrate compliance with either an acceptable solution or a performance criterion. Where a proposal complies with a standard by relying on one or more performance criteria, the Council may approve or refuse the proposal on that basis. The ability to approve or refuse the proposal relates only to the performance criteria relied on.
- 6.2 The site is located within the inner Residential Zone of the *Hobart Interim Planning Scheme 2015*.
- 6.3 The existing and proposed use is residential for multiple dwellings, which is a permitted use in the zone.
- 6.4 The proposal has been assessed against:
 - 6.4.1 Part D 11 Inner Residential Zone
 - 6.4.2 E6.0 Parking and Access Code
 - 6.4.3 E7.0 Stormwater Management Code
 - 6.4.4 E13.0 Historic Heritage Code
- 6.5 The proposal relies on the following performance criteria to comply with the applicable standards:
 - 6.5.1 Inner Residential Zone:

Setback and Building Envelope – Part D 11.4.2 P3

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Site Coverage and Private Open Space - Part D 11.4.3 P1: P2

6.5.2 Parking and Access Code:

Vehicle Passing - E6.7.3 P1

6.5.3 Historic Heritage Code:

Demolition on a Listed Place in a Listed Precinct - E13.7.1 P1 and E13.8.1 P1 Building and Works on a Listed Place in a Listed Precinct - E13.7.2 P1: P2: P3 and E13.8.2 P1.

- 6.6 Each performance criterion is assessed below.
- 6.7 Setback and Building Envelope Part D 11.4.2 P3
 - 6.7.1 The acceptable solution at clause 11.4.2.A3 requires buildings to be sited within the prescribed building envelope, which includes a maximum height of 3m at a side and rear boundary, increasing at an angle of 45 degrees to a maximum height of 9.5m.
 - 6.7.2 The proposal includes buildings that would not comply with the prescribed building envelope. A second storey bedroom that is proposed at 5.5m in height which falls party outside the envelope near the rear boundary.
 - 6.7.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.7.4 The performance criterion at clause 11.4.2.P3 provides as follows:

The siting and scale of a dwelling must:

(a) not cause an unreasonable loss of amenity to adjoining properties, having regard to:

(i) reduction in sunlight to a habitable room (other than a bedroom) of a dwelling on an adjoining property;

(ii) overshadowing the private open space of a dwelling on an adjoining property;

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(iii) overshadowing of an adjoining vacant property; or

(iv) visual impacts caused by the apparent scale, bulk or proportions of the dwelling when viewed from an adjoining property; and

(b) provide separation between dwellings on adjoining properties that is consistent with that existing on established properties in the area.

6.7.5 Adjoining properties

Adjoining properties for the purposes of this assessment are considered to be 16 Lord Street (west of proposal), 12 Lord Street (east of proposal), 13 Duke Street (northwest of proposal), and 11 Duke Street (north of proposal).

Overshadowing

Shadow diagrams and solar access diagrams have been submitted in support of the proposal. The diagrams show the extent of overshadowing caused by the proposal between 9am and 3pm during solstice and equinox periods. The diagrams also present a comparison of the proposal against the existing shadows and shadows cast by a theoretical building built to comply with the prescribed building envelope.

The submitted documents demonstrate that the proposal will not result in any overshadowing impact to the adjoining dwellings or private open space at 11 Duke Street, 13 Duke Street, and 12 Lord Street throughout the year between the hours of 9am-3pm. Overshadowing impact on 16 Lord Street is confined to early morning periods (around 9am). That is, the propsoal will not reduce direct sunlight access to the dwelling and private open space of 16 Lord Street below 3 hours per day during the winder solstice, which is generally considered to be meet the test or reasonableness. In addition, the early morning overshadowing resulting from the proposal is less than what would theoretically be possible under the prescribed building envelope.

Visual Impact

When viewed from the adjoining properties, the proposal will be compatible with the existing development on the site, and will appear similar in scale and bulk. Parts of the privacy screening and landscaping on the rooftop terrace above the garage will be visible from some adjoining properties, as will parts of the second storey bedroom to the

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new dwelling. The scale of the additions are relatively modest, at a maximum height of 5.5m, but predominantly around 3 to 4m.

The second storey bedroom will be setback from property boundaries and, when viewed from adjoining properties, will be partly obscured by existing boundary walls and/or softened by vegetation in a similar manner to the exiting dwelling.

A new one bedroom dwelling will replace an existing two bedroom dwelling at 14b Lord Street. In general terms, when viewed from adjoining properties, the reduction in the overall footprint of this dwelling enables the dwelling at 14b to be read as ancillary to, or an outbuilding of, the existing dwelling at 14a. There is also a sufficient degree of separation between the second storey building elements to reduce the apparent bulk of the proposal when viewed in context of adjoining properties.

Separation Distance

Numerous properties in the area, including 13 Duke St, 15 Duke St, 12 Lord St, 14a Lord St, 14b Lord St, and 16 Lord St, include dwellings or building elements built on or close to property boundaries. As a result, separation distance between adjoining dwellings in the area is highly variable. Broadly speaking, separation between existing dwellings ranges from around 1m (e.g. between 18 and 20 Lord St) to more than 20m (e.g. between 16 Lord St and 13 Duke St.

The proposal provides for separation between adjoining dwellings that is consistent with that prevailing in the surround area. The existing separation distances to adjoining properties will be retained.

In summary, the proposal presents minimal overshadowing impact, modest visual impact, and consistent separation distances.

- 6.7.6 The proposal complies with the performance criterion.
- 6.8 Site Coverage Part D 11.4.3.P1
 - 6.8.1 The acceptable solution at clause 11.4.3.A1(b) requires multiple dwellings to have a total are of private open space of not less than 40m² per dwelling.
 - 6.8.2 The proposal includes an area of 15m² of private open space for the dwelling at the rear of the site.

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- 6.8.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
- 6.8.4 The performance criterion at clause 11.4.3.P1 provides as follows:

Dwellings must have:

 a) site coverage consistent with that existing on established properties in the area;

b) private open space that is of a size and dimensions appropriate for the size of the dwelling and is able to accommodate:

i) outdoor recreational space consistent with the projected requirements of the occupants and, for multiple dwellings, take into account any common open space provided for this purpose within the development; and

ii) operational needs, such as clothes drying and storage; and

c) reasonable space for the planting of gardens and landscaping.

6.8.5 The proposal will result in a site coverage that is less than 65%, which meets the corresponding acceptable solution.

The private open space available to 14a Lord Street will be increased by the proposal through the addition of the rooftop terrace area above the garage. This meets the corresponding acceptable solution.

The one bedroom dwelling proposed at 14b is to be provided with a 10m² courtyard that functions as their primary private open space. Additional open space in the form of a small garden bed is also available, and the uncovered car space is to be screened in a manner that it could function as another temporary open space area. The primary open space for 14b is directly accessible from the living area, and is north facing. Direct sunlight access may be reduced in mid winter periods, however, this is not dissimilar in nature and size to the private open space of other one bedroom multiple dwellings in the Hobart area. The projected private open space requirements of occupants of one bedroom dwellings is markedly different to larger family homes with multiple bedrooms. One bedroom dwellings typically accommodate one or two person households without children, who leverage off nearby public open space areas for

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outdoor recreation needs. In this instance, the site is less than 400m from open space areas, including at Marieville Esplanade.

Broadly speaking, there is sufficient private open space available at 14b to serve the likely needs of future occupants, such as clothes drying, storage and gardening.

- 6.8.6 The proposal complies with the performance criterion.
- 6.9 Private Open Space Part D11.4.3.P2
 - 6.9.1 The acceptable solution at clause 11.4.3.A2 requires a dwelling to have an area of private open space that is at least 24m² and has a minimum dimension of 4m.
 - 6.9.2 The proposal includes an area of private open space for the rear dwelling that would have an area of 10m² and a minimum dimension, excluding the courtyard wall, of 1.8m.
 - 6.9.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.9.4 The performance criterion at clause 11.4.3.P2 provides as follows:

A dwelling must have private open space that includes an area capable of serving as an extension of the dwelling for outdoor relaxation, dining, entertaining and children's play and that is:

a) conveniently located in relation to a living area of the dwelling; and

b) oriented to take advantage of sunlight.

6.9.5 The one bedroom dwelling proposed at 14b is to be provided with a 10m² courtyard that functions as their primary private open space. Additional open space in the form of a small garden bed is also available, and the uncovered car space is to be screened in a manner that it could function as another temporary open space area. The primary open space for 14b is directly accessible from the living area, and is north facing. Direct sunlight access may be reduced in mid winter periods, however, this is not dissimilar in nature and size to private open space of other one bedroom multiple dwellings in the Hobart area. There is considered to be sufficient private outdoor space area that is capable of serving as an

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extension to the dwelling to meets the likely needs of future occupants.

- 6.9.6 The proposal complies with the performance criterion.
- 6.10 Vehicle Passing E6.7.3 P1
 - 6.10.1 The acceptable solution at clause E6.7.3 A1 requires a passing bay as the driveway is longer than 30m.
 - 6.10.2 The proposal does not include a passing bay for the driveway.
 - 6.10.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.10.4 The performance criterion at clause E6.7.3 P1 provides as follows:

Vehicular passing areas must be provided in sufficient number, dimension and siting so that the access is safe, efficient and convenient, having regard to all of the following:

(a) avoidance of conflicts between users including vehicles, cyclists and pedestrians;

(b) avoidance of unreasonable interference with the flow of traffic on adjoining roads;

(c) suitability for the type and volume of traffic likely to be generated by the use or development;

(d) ease of accessibility and recognition for users.

- 6.10.5 The application has been referred to Council's Development Engineering Officer, who has concluded that, given the existing driveway configuration and low traffic volumes, the proposed parking and access arrangements are acceptable. Considering that the existing two bedroom dwelling at 14b is to be replaced with a one bedroom dwelling, parking and access will likely be improved as a result of the proposal.
- 6.10.6 The proposal complies with the performance criterion.
- 6.11 Demolition on a Listed Place in a Heritage Precinct E13.7.1 P1 and E13.8.1 P1
 - 6.11.1 There is no acceptable solution for clause E13.7.1 A1 and E13.8.1 A1.

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- 6.11.2 The proposal includes demolition.
- 6.11.3 There is no acceptable solution; therefore assessment against the performance criterion is relied on.
- 6.11.4 The performance criterion at clause E13.7.1 P1 and E13.8.1 P1 provides as follows:

E13.7.1 P1

Demolition must not result in the loss of significant fabric, form, items, outbuildings or landscape elements that contribute to the historic cultural heritage significance of the place unless all of the following are satisfied;

(a) there are, environmental, social, economic or safety reasons of greater value to the community than the historic cultural heritage values of the place;

(b) there are no prudent and feasible alternatives;

(c) important structural or façade elements that can feasibly be retained and reused in a new structure, are to be retained;

(d) significant fabric is documented before demolition.

E13.8.1 P1

Demolition must not result in the loss of any of the following:

(a) buildings or works that contribute to the historic cultural heritage significance of the precinct;

(b) fabric or landscape elements, including plants, trees, fences, paths, outbuildings and other items, that contribute to the historic cultural heritage significance of the precinct; unless all of the following apply;

(i) there are, environmental, social, economic or safety reasons of greater value to the community than the historic cultural heritage values of the place;

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(ii) there are no prudent or feasible alternatives;

(iii) opportunity is created for a replacement building that will be more complementary to the heritage values of the precinct.

- 6.11.5 The application has been referred to Council's Senior Cultural Heritage Officer, who has determined that the proposed demolition involved the removal of a 1980s era flat at the rear of the site which is not fabric of heritage significance to the place or precinct. Therefore, the proposal will not result in the loss through demolition of heritage values to the place or precinct.
- 6.11.6 The proposal complies with the performance criterion.
- 6.12 Buildings and Works on a Listed Place in a Heritage Precinct E13.7.2 P1: P2: P3 & E13.8.2 P1
 - 6.12.1 There is no acceptable solution for clause E13.7.2 A1: A2: A3 and clause E13.8.2 A1
 - 6.12.2 The proposal includes buildings and works.
 - 6.12.3 There is no acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.12.4 The performance criterion at clause E13.7.2 P1: P2: P3 & E13.8.2 P1 provides as follows:

E13.7.2 P1

Development must not result in any of the following:

(a) loss of historic cultural heritage significance to the place through incompatible design, including in height, scale, bulk, form, fenestration, siting, materials, colours and finishes;

(b) substantial diminution of the historic cultural heritage significance of the place through loss of significant streetscape elements including plants, trees, fences, walls, paths, outbuildings and other items that contribute to the significance of the place.

E13.7.2 P2

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Development must be designed to be subservient and complementary to the place through characteristics including:

(a) scale and bulk, materials, built form and fenestration;

(b) setback from frontage;

(c) siting with respect to buildings, structures and listed elements;

(d) using less dominant materials and colours.

E13.7.2 P3

Materials, built form and fenestration must respond to the dominant heritage characteristics of the place, but any new fabric should be readily identifiable as such.

E13.8.2 P1

Design and siting of buildings and works must not result in detriment to the historic cultural heritage significance of the precinct, as listed in Table E13.2.

6.12.5 The application has been referred to Council's Senior Cultural Heritage Officer, who has provided the following assessment.

In terms of the heritage precinct, the proposal needs to be considered in relation to the impact on the streetscape (as defined by the Scheme) and whether detriment to the heritage values of the precinct will ensue. Given that the rear extension of the front house currently obscures the existing rear strata unit, and although the proposed new unit will be higher than the existing and have a second storey, it will not be dominant or visible from the streetscape when viewed up the existing driveway/right of way or between the subject site and 16 Lord Street. In this regard the proposal satisfies E13.8.2 P1.

In terms of the new proposal in relation to the heritage listed place, the proposed new unit is from the same stable of work as the designer of the extension to the heritage listed house and therefore is of a similar material, colour and texture palette. Largely single storey, the double garage has a roof top garden while the unit has a smaller second storey and is located toward the rear of the block. It can be considered to be subservient in height, scale and form to the main heritage listed building

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and its extension, is readily identifiable as a new element and is not incompatible with the design of the extension to the existing house. In this regard the proposal satisfies E13.7.2 P1: P2: & P3.

6.12.6 The proposal complies with the performance criterion.

7. Discussion

- 7.1 Planning approval is sought for Partial Demolition, Alterations, Extension, and Two Multiple Dwellings (Two Existing and Two Proposed), at 1/14 Lord Street, 2/14 Lord Street and 12 Lord Street.
- 7.2 The application was advertised and received six representations (5 objecting). The representations raised concerns regarding amenity, privacy, overshadowing, visual impact, use, site coverage, private open space, validity, parking and heritage.
- 7.3 The proposal has been assessed against the relevant provisions of the planning scheme and is considered to perform well.
- 7.4 The proposal has been assessed by other Council officers, including the Council's Development Engineer, Cultural Heritage Officer, Surveyor, Environmental Health Officer and Stormwater Engineer. The officers have raised no objection to the proposal, subject to conditions.
- 7.5 The proposal is recommended for approval.

8. Conclusion

8.1 The proposed Partial Demolition, Alterations, Extension, and Two Multiple Dwellings (Two Existing and Two Proposed), at 1/14 Lord Street, 2/14 Lord Street and 12 Lord Street satisfies the relevant provisions of the *Hobart Interim Planning Scheme 2015*, and as such is recommended for approval.

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9. Recommendations

That: Pursuant to the *Hobart Interim Planning Scheme 2015*, the City Planning Committee, in accordance with the delegations contained in its terms of reference, approve the application for Partial Demolition, Alterations, Extension, and Two Multiple Dwellings (Two Existing and Two Proposed), at 1/14 Lord Street, 2/14 Lord Street and 12 Lord Street for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-532 - 1/14 LORD STREET SANDY BAY TAS 7005 - Final Planning Documents, except where modified below.

Reason for condition

To clarify the scope of the permit.

тw

The use and/or development must comply with the requirements of TasWater as detailed in the form Submission to Planning Authority Notice, Reference No. TWDA 2021/01404-HCC dated 23 November 2021 as attached to the permit.

Reason for condition

To clarify the scope of the permit.

PLN 1

Screening to a height of 1.7m above the finished floor level, with no more than 25% uniform transparency, must be installed and maintained along the western edge of the terrace above the garage prior to first occupation.

Reason for condition

To provide reasonable opportunity for privacy for dwellings.

PLN s1

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No works are approved on 11 Duke Street as part of this planning permit.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

ENG 3a

The access driveway, and parking module (parking spaces, aisles and manoeuvring area) must be designed and constructed in accordance with Australian Standard AS/NZS2890.1:2004 (including the requirement for vehicle safety barriers where required), or a Council approved alternate design certified by a suitably qualified engineer to provide a safe and efficient access, and enable safe, easy and efficient use.

Advice: It is advised that designers consider the detailed design of the access and parking module prior to finalising the Finished Floor Level (FFL) of the parking spaces (especially if located within a garage incorporated into the dwelling), as failure to do so may result in difficulty complying with this condition.

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 4

The access driveway and parking module (car parking spaces, aisles and

Page: 25 of 29

manoeuvring area) approved by this permit must be constructed to a sealed standard (spray seal, asphalt, concrete, pavers or equivalent Council approved) and surface drained to the Council's stormwater infrastructure prior to the commencement of use.

Reason for condition

To ensure the safety of users of the access driveway and parking module, and that it does not detract from the amenity of users, adjoining occupiers or the environment by preventing dust, mud and sediment transport.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and

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maintained until all areas of disturbance have been stabilized or re-vegetated.

Advice: For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016*. Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

STORM WATER

Please note that in addition to a building and/or plumbing permit, development must be in accordance with the Hobart City Council's Infrastructure By law. Click here for more information.

RIGHT OF WAY

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The private right of way must not be reduced, restricted or impeded in any way, and all beneficiaries must have complete and unrestricted access at all times.

You should inform yourself as to your rights and responsibilities in respect to the private right of way particularly reducing, restricting or impeding the right during and after construction.

STRATA AMENDMENT

You will be required to amend strata plan 59085 pursuant to the provisions of the *Strata Titles Act 1998* in order to reflect the completed development works.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

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Nie

(Mark O'Brien)

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Kluy

(Karen Abey) Manager Development Appraisal

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Date of Report: 14 January 2022

Attachment(s):

Attachment B - CPC Agenda Documents

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12.08.2021 Attention: Planning Officer City of Hobart 16 Elizabeth Street Hobart TAS 7001

To Whom It May Concern,

DEVELOPMENT APPLICATION – ALTERATIONS & ADDITIONS 14a & 14b LORD STREET, SANDY BAY TASMANIA 7005

PID: 5619873 & 5619881 Certificate of Title: 59085/1 & 2

Please find attached application for alterations and additions to 14a & 14b Lord Street, Sandy Bay 7005.

Included with this letter are the following documents:

AUTHOR	DOCUMENT	DETAIL			
1+2 Architecture	Architecture Drawings	A0.00 Cover Sheet			
		A1.01 Existing Site Plan			
		A1.02 Proposed Site Plan			
		A2.01 Lower Level Floor Plan			
		A2.02 Upper Level Floor Plan			
		A2.03 Roof Plan			
		A3.01 Building Elevations			
		A3.02 Building Elevations			
		A4.01 Building Sections			
		A4.02 Building Sections			
		A4.03 Building Sections			
		A9.01 Vehicle Swept Paths			
		A9.02 Shadow Diagrams Winter			
		A9.03 Shadow Diagrams Summer			
Leary Cox &	Detailed Land Survey	913701-A2 Detail			
Cripps					

1 PLUS 2 ARCHITECTURE PTY. LTD. ABN 50 099 399 621 DIRECTORS CATH HALL + FRED WARD MIKE VERDOUW 31 MELVILLE STREET HOBART TASMANIA 7000 T 6234 8122 F 6234 8211 E MAIL@IPLUS2ARCHITECTURE.COM S1/2016/RAm/NonCAD/03 AUTHORTIES & PUBLIC UTILITES/03/01 Planning Autmontly/02 - 12/02/2021 Planning Submission/14a Lord Street Da Cover Letter 11/02/1dcx



The following proposal is for 14a and 14b Lord Street, Sandy Bay:

The existing 2 bedroom dwelling at 14b is proposed to be demolished. The strata boundary between 14a and 14b will be adjusted to suit the proposed works.

14b is proposed to have right of way access over a shared driveway located wholly within 14a.

A 2 car garage with a Roof Garden is proposed for the rear of 14a and will not be visible from Lord Street.

A new 1 bedroom dwelling with 1 car parking is proposed for 14b.

The existing house on 14a is on the Tasmania State Heritage register.

1+2 Architecture have researched the history and heritage significance of the building and have consulted with Russell Dobie from Heritage Tasmania. Below we have addressed how the proposal deals with each of the criteria identified in the Tasmanian Heritage Register data sheet specific to the property (below).

d) The place is important in demonstrating the principal characteristics of a class of place in Tasmania's history.

14 Lord Street is of historic heritage significance because of its ability to demonstrate the principal characteristics of a double storey brick Federation Arts and Crafts domestic building.

f) The place has a strong or special association with a particular community or cultural group for social or spiritual reasons.

This building is of historic heritage significance because of its townscape associations are regarded as important to the community's sense of place.

The design and siting of the proposal at the rear of the property does not impact the prominence of the existing house or the streetscape character of Lord Street.

No significant modifications are proposed to the existing heritage listed house.

The proposed dwelling at 14b projects outside of the building envelope. This only differs to the current conditions at 9am in June. Throughout the rest of the year, the overshadowing is not dissimilar to current conditions imposed by the existing 2 bedroom apartment.

₃ **+**

The upper level of the 2 storey apartment has been setback from the northern boundary to reduce the impacts of overshadowing. Windows to the 2nd storey have been located and orientated to ensure the privacy of No. 12 & 16 Lord Street and No. 11 Duke Street is not compromised.

The terrace component of the Roof Garden is set back from the western boundary to protect the privacy of 16 Lord Street.

Should any further detail or clarifications be required, please contact 1 + 2 Architecture.

Kind regards,

For 1 Plus 2 Architecture Pty. Ltd.

Malith

Michael Carlotto

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LORD STREET HOUSE ALTERATIONS & ADDITIONS

SITE TITLE REF: 59085/1 & 2 PID: 5619873 & 5619881 SITE ADDRESS: 14A & 14B LORD STREET, SANDY BAY, TASMANIA 7005 LOCAL AUTHORITY: HOBART CITY COUNCIL PLANNING SCHEME: Hobart Interim Planning Scheme 2015

DRAWING LIST

NO.	NAME	REV.
A0.00	COVER SHEET	В
A1.01	EXISTING SITE PLAN	В
A1.02	PROPOSED SITE PLAN	В
A1.03	EXISTING LOWER LEVEL FLOOR PLAN	Α
A2.01	PROPOSED LOWER LEVEL FLOOR PLAN	В
A2.02	PROPOSED UPPER LEVEL FLOOR PLAN	В
A2.03	PROPOSED ROOF PLAN	В
A3.01	PROPOSED BUILDING ELEVATIONS	В
A3.02	PROPOSED BUILDING ELEVATIONS	В
A3.03	EXISTING BUILDING ELEVATIONS	Α
A3.04	EXISTING BUILDING ELEVATIONS	Α
A4.01	PROPOSED SECTIONS	В
A4.02	PROPOSED SECTIONS	в
A4.03	PROPOSED SECTIONS	В
A9.01	VEHICLE SWEPT PATHS	Α
A9.02	SHADOW DIAGRAMS JUNE	В
A9.03	SHADOW DIAGRAMS DECEMBER	В
A9.04	SHADOW DIAGRAMS MARCH	Α
A9.05	SHADOW DIAGRAMS JUNE	А
A9.06	SHADOW DIAGRAMS DECEMBER	Α
A9.07	SHADOW DIAGRAMS MARCH	А

NOTES

ā.



EXISTING LOT 1 SITE COVER

AREA PERCENTAGE OF SITE AREA ROOFED AREA 209.83 m² 52% UNCOVERED AREA 193.44 m² 48% SITE AREA 403.27 m²

EXISTING LOT 2 SITE COVER

LOT 2 UNCOVERED AREA

22.86 m²

A0.00

1:500

	AREA	PERCENTAGE OF SITE AREA
ROOFED AREA	103.58 m ²	82%
UNCOVERED AREA	22.86 m ²	18%
SITE AREA	126.45 m ²	

103.58 m²

16 LORD

STREET

EXISTING SITE COVER

LOT 2 COVERED AREA

14b LOR

STREET

14a LORD

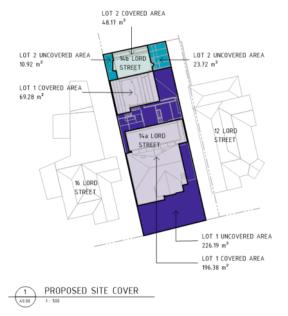
STREET

PROPOSED LOT 1 SITE COVER

	AREA	PERCENTAGE OF SITE AREA
ROOFED AREA	265.65 m ²	54%
UNCOVERED AREA	226.19 m ²	46%
SITE AREA	491.84 m²	

PROPOSED LOT 2 SITE COVER

	AREA	PERCENTAGE OF SITE AREA
ROOFED AREA	48.17 m ²	58%
UNCOVERED AREA	34.64 m ²	42%
SITE AREA	82.81 m ²	



PRELIMINARY



LOT 1 UNCOVERED AREA

12 LORD

STREET

LOT 1 UNCOVERED AREA

LOT 1 COVERED AREA

193.44 m²

196.38 m²

13.45 m²



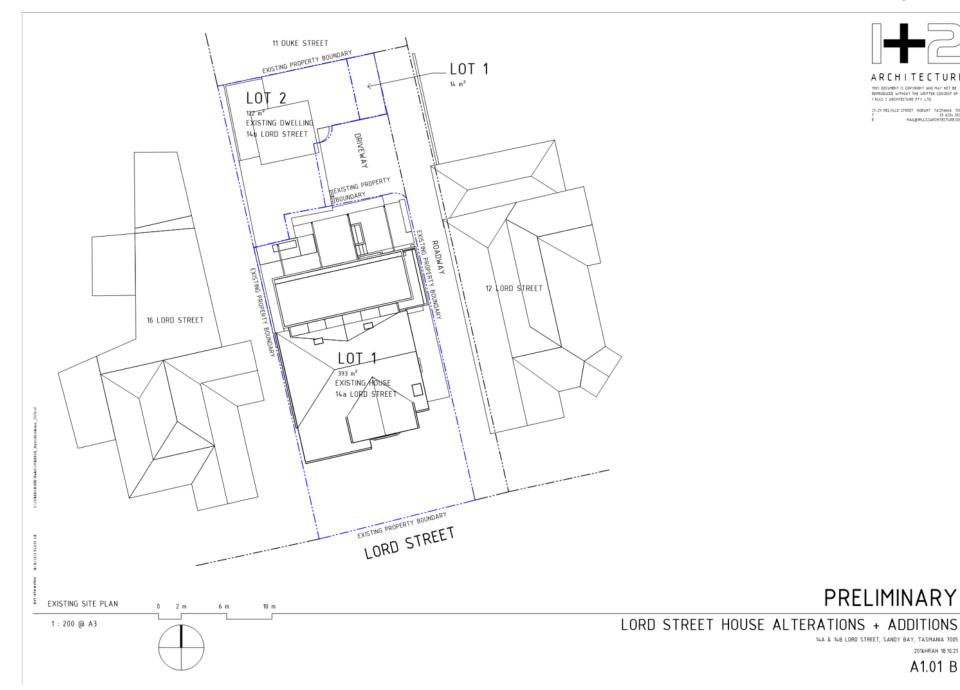
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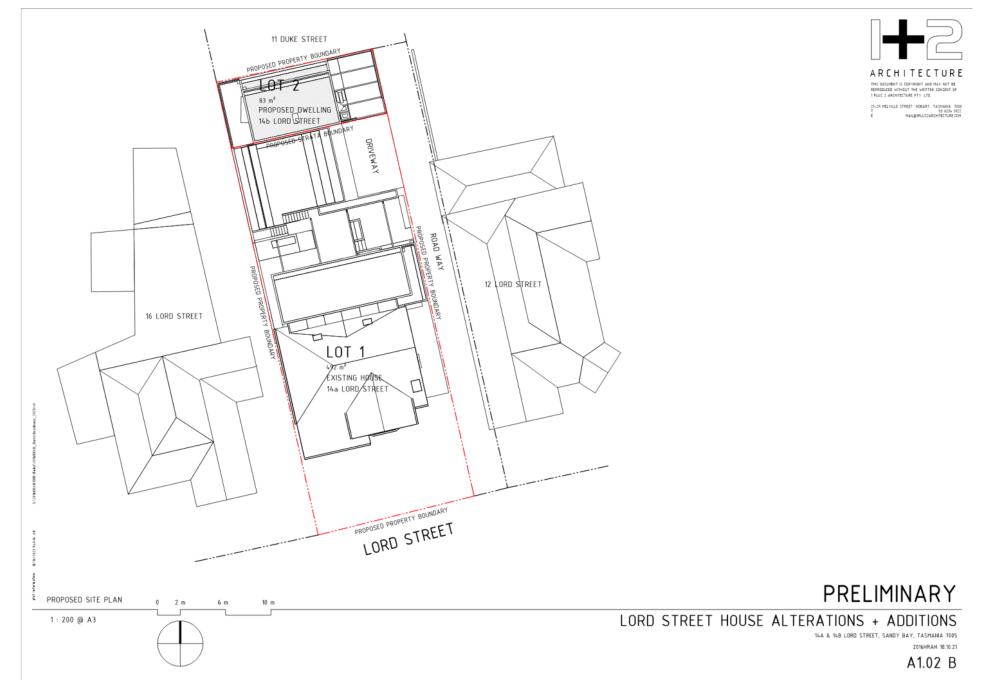
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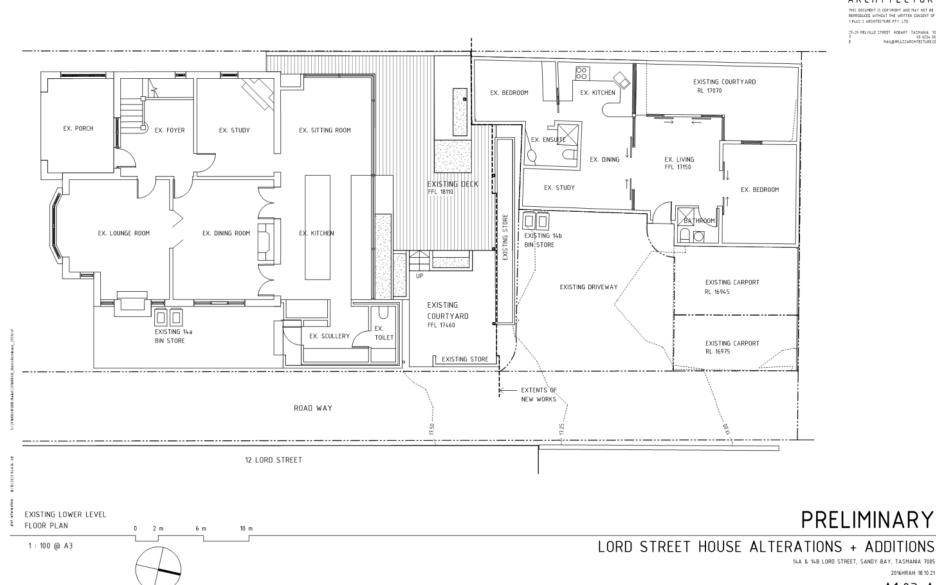
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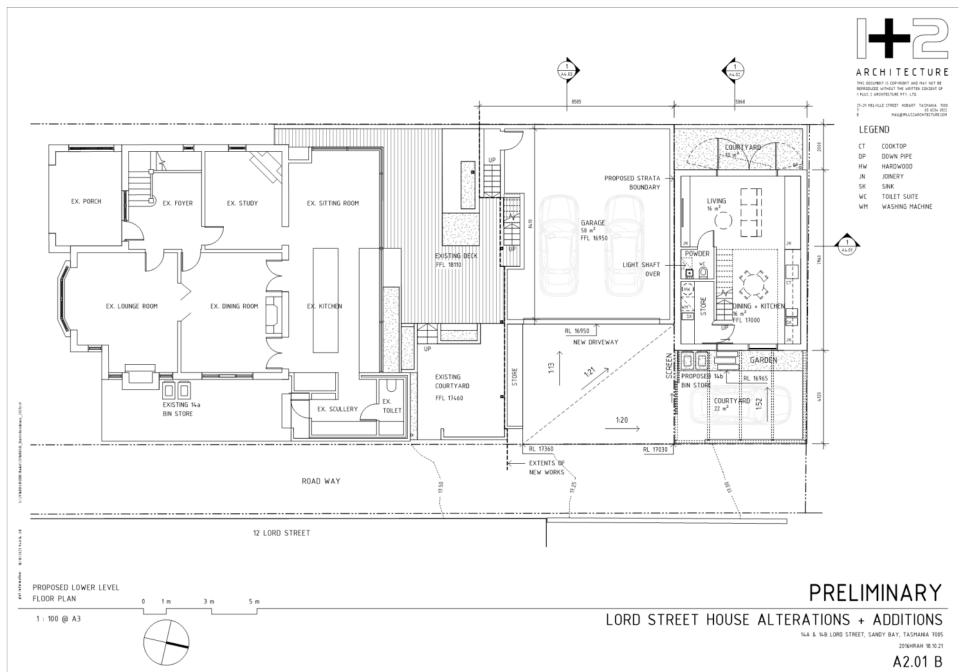
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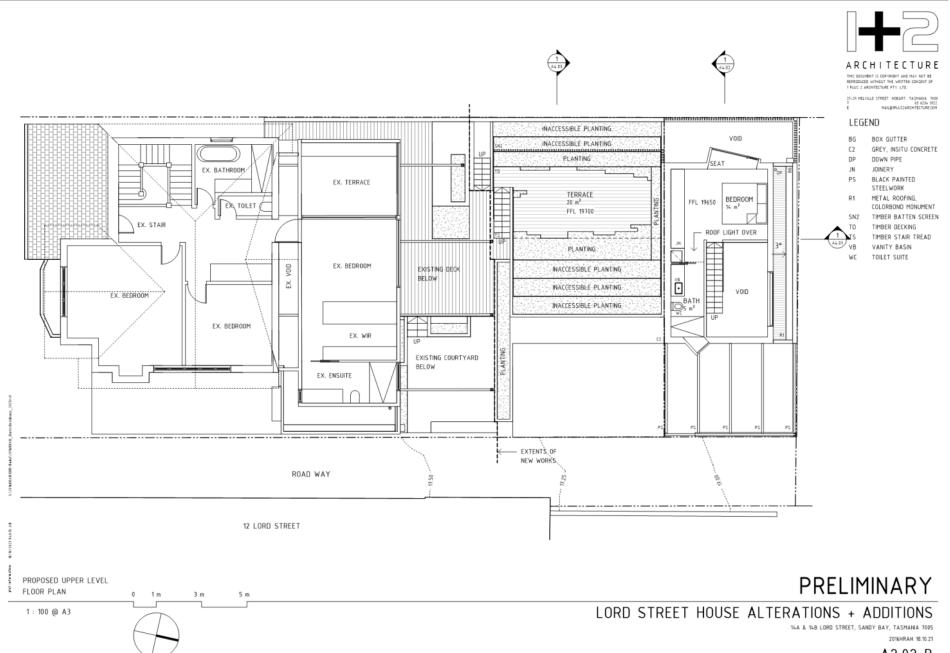
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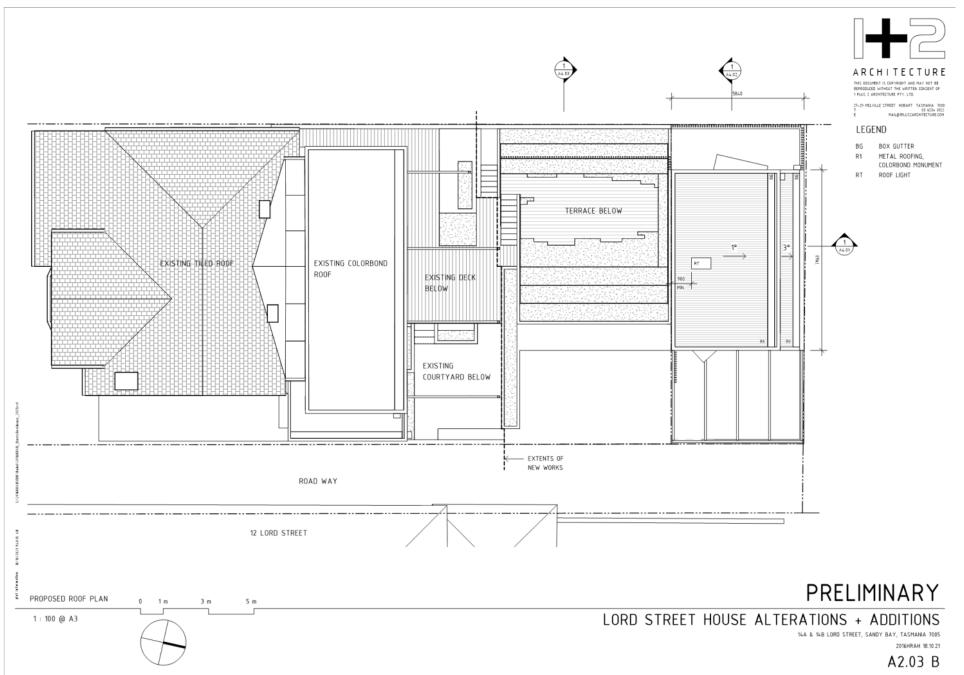


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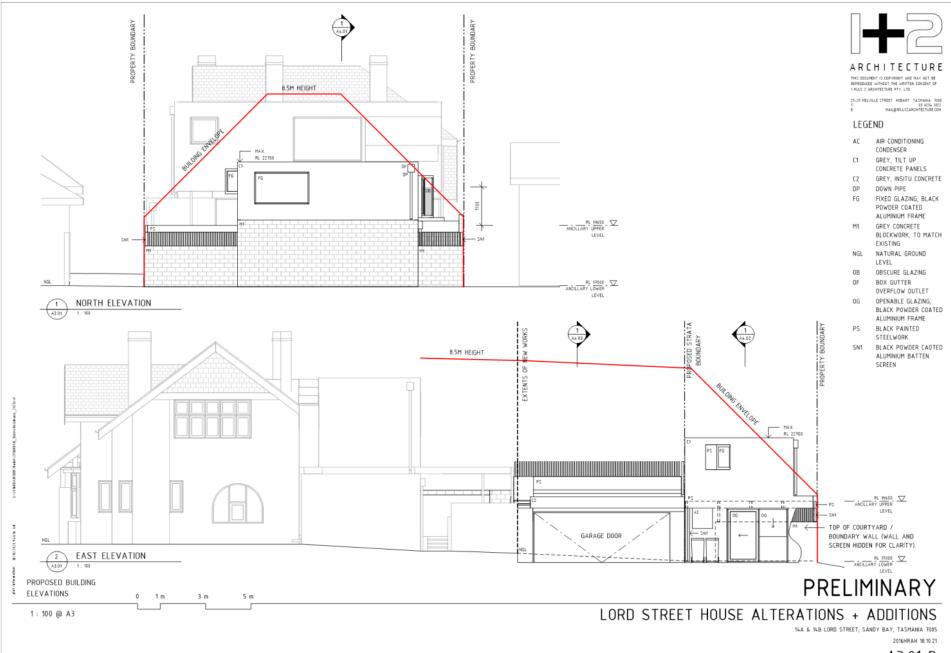


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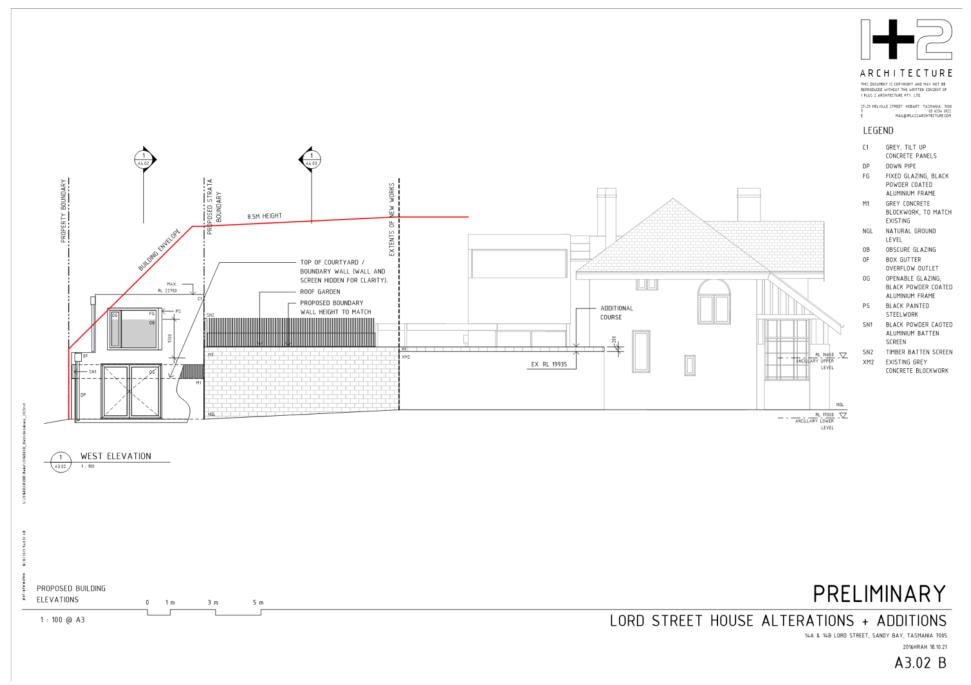


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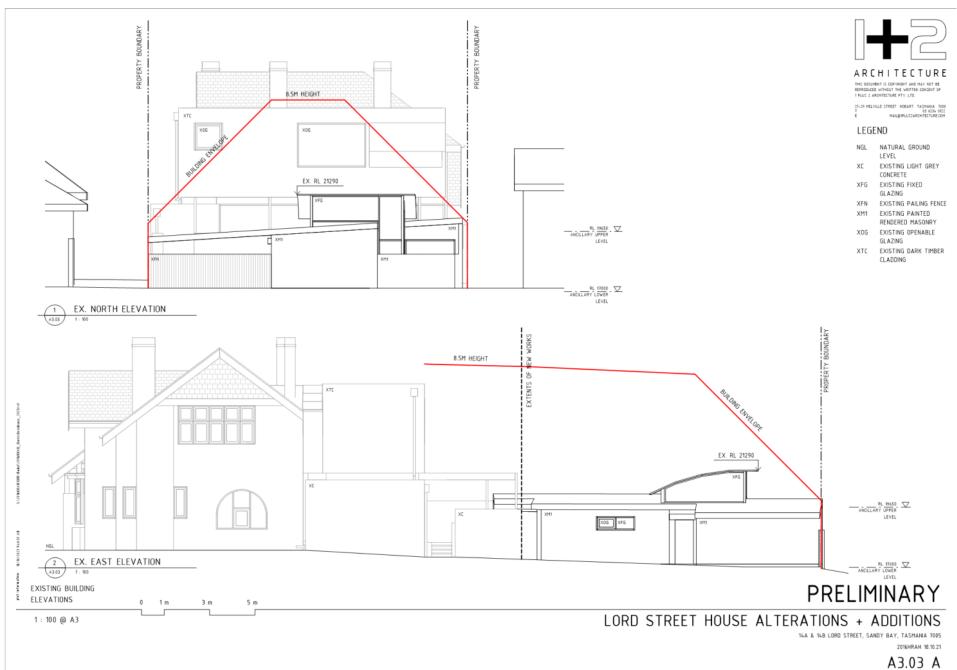


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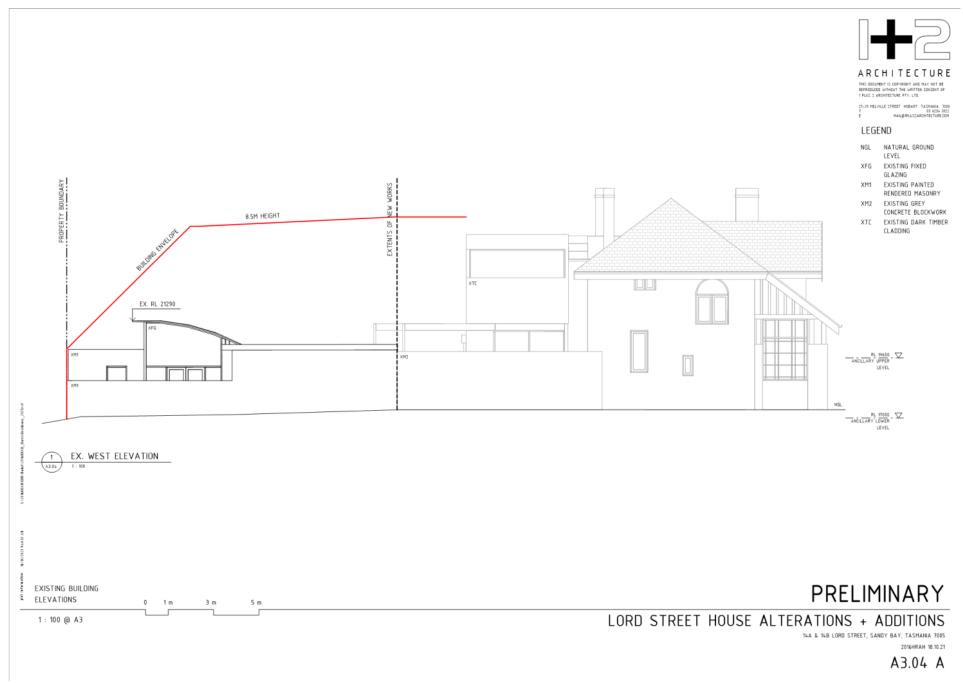
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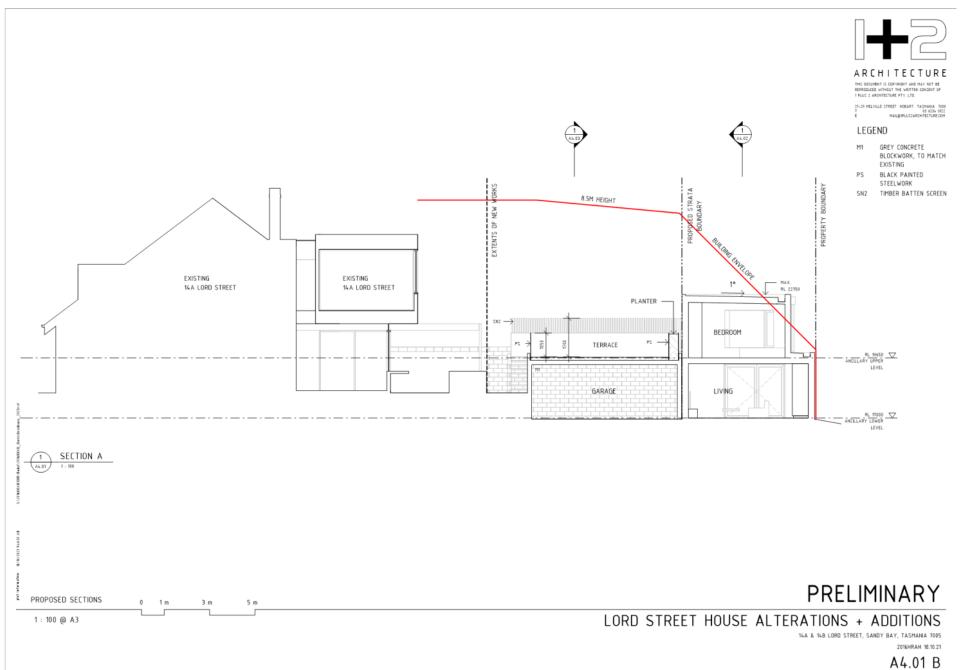
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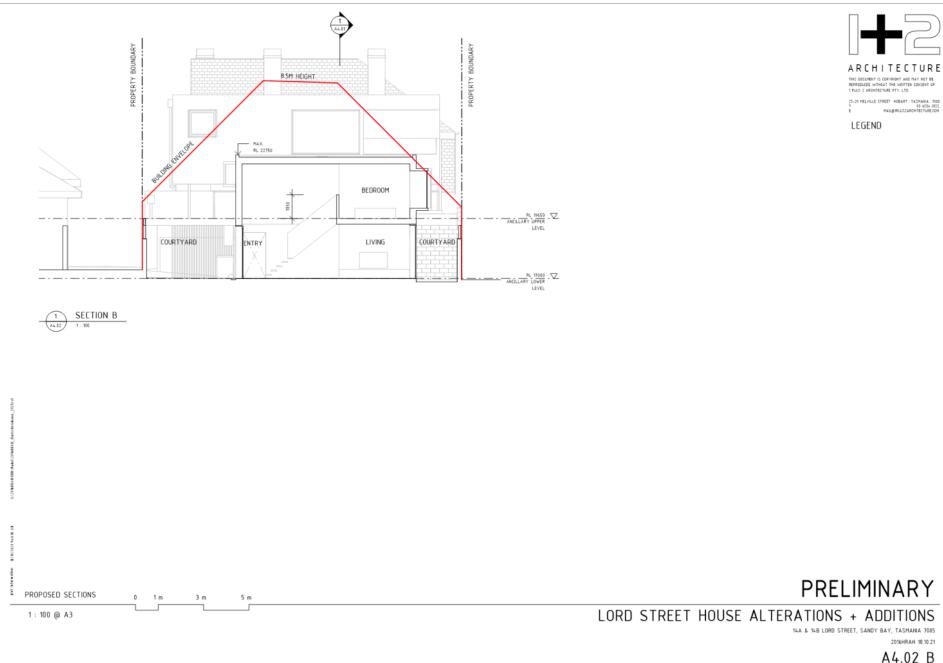
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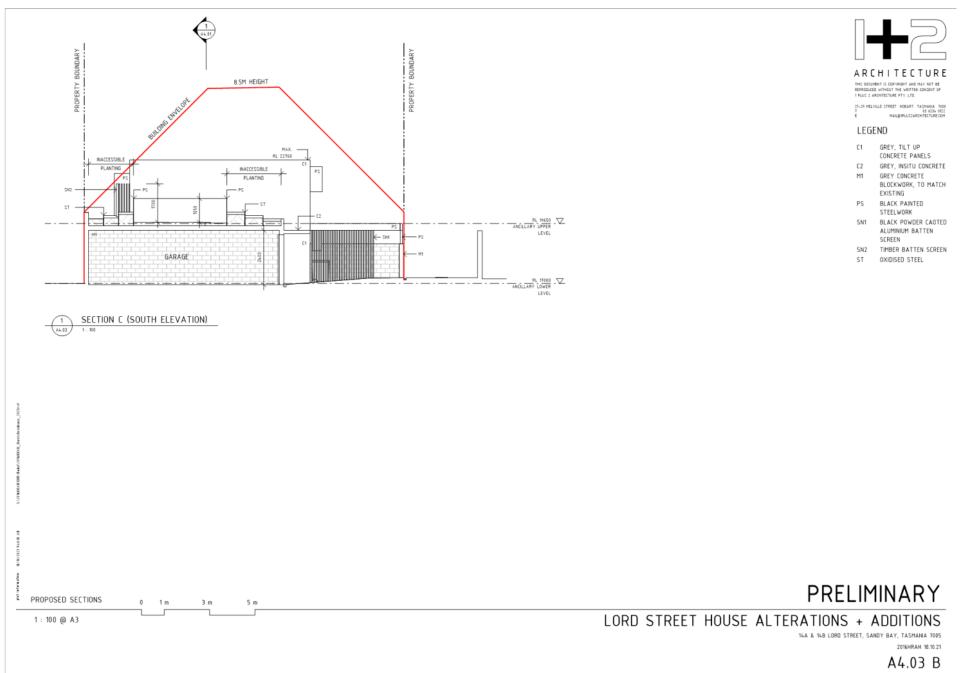


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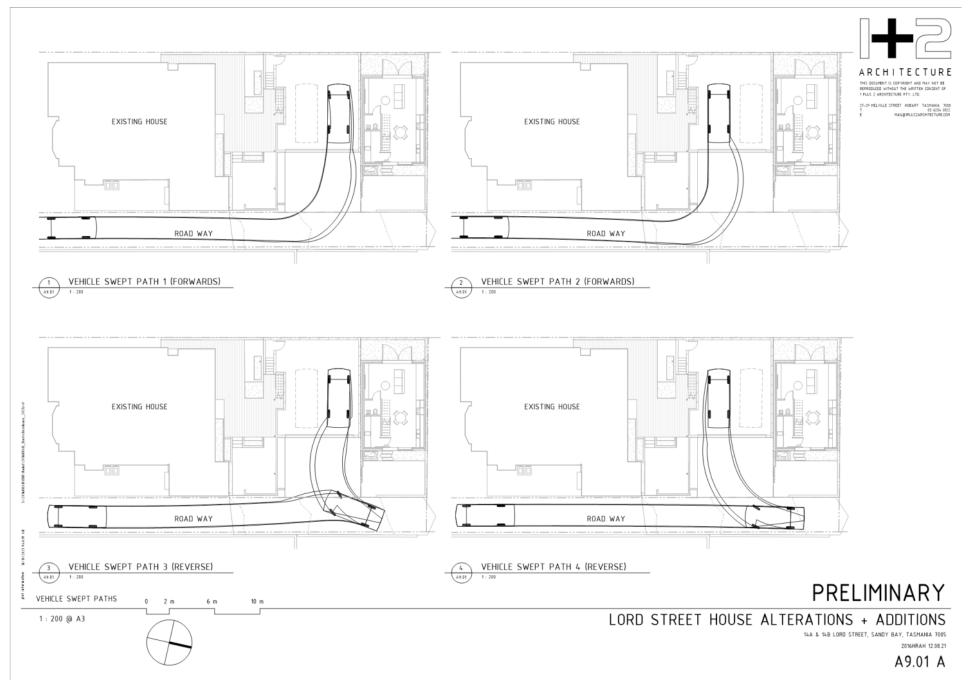


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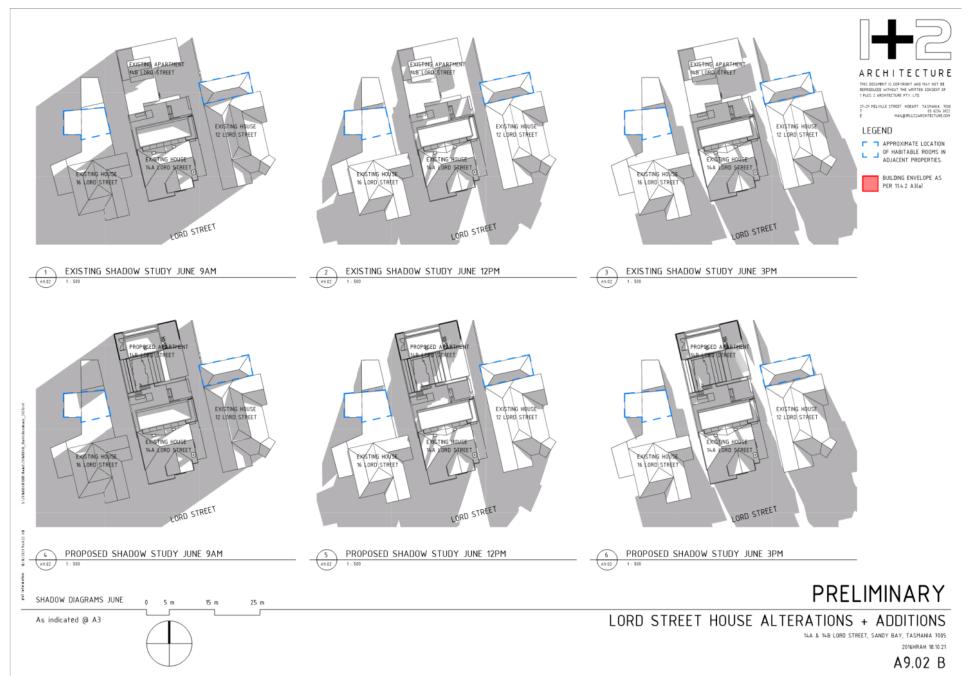


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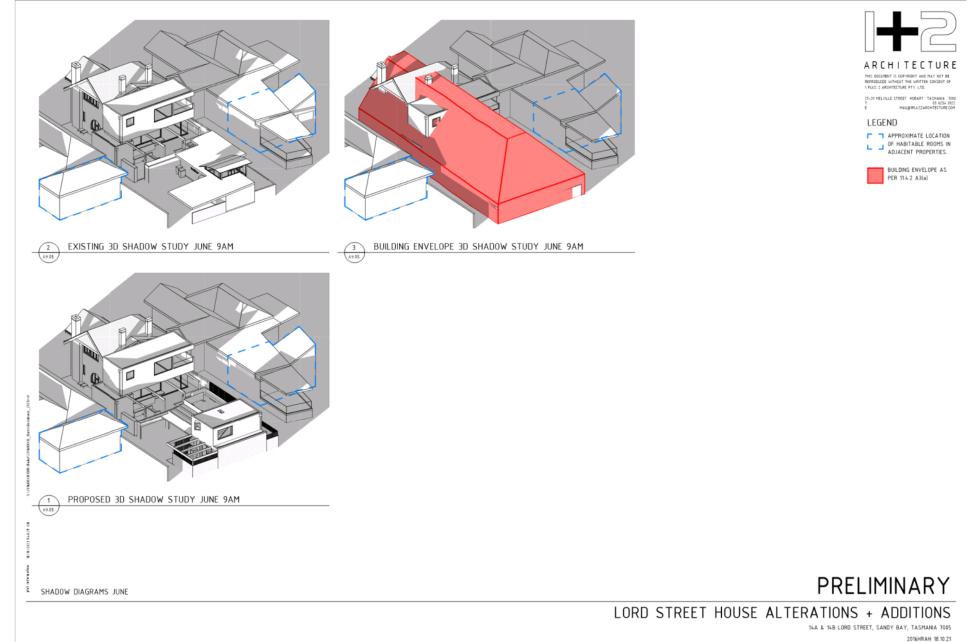




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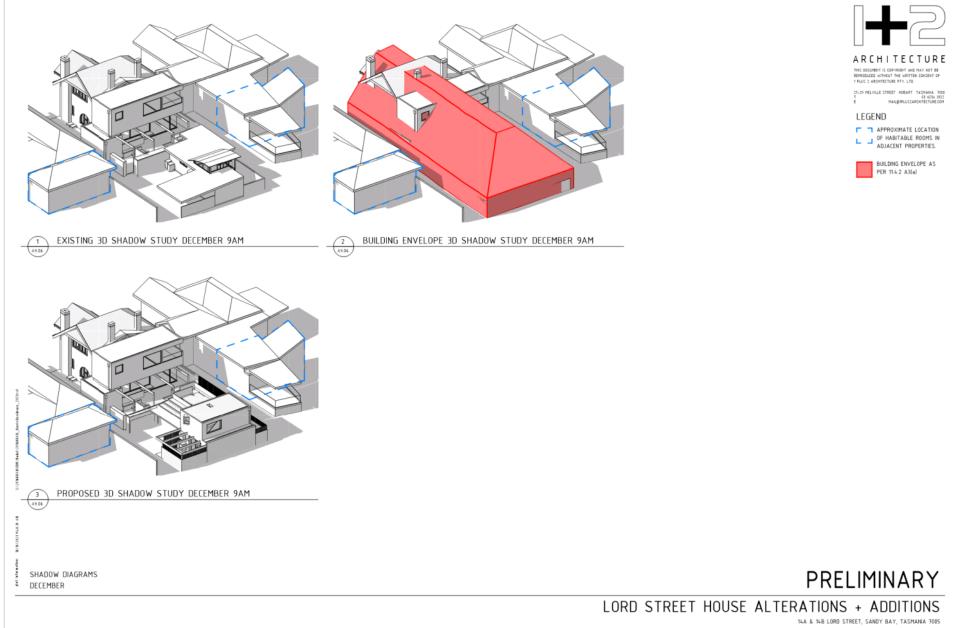


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A9.05 A

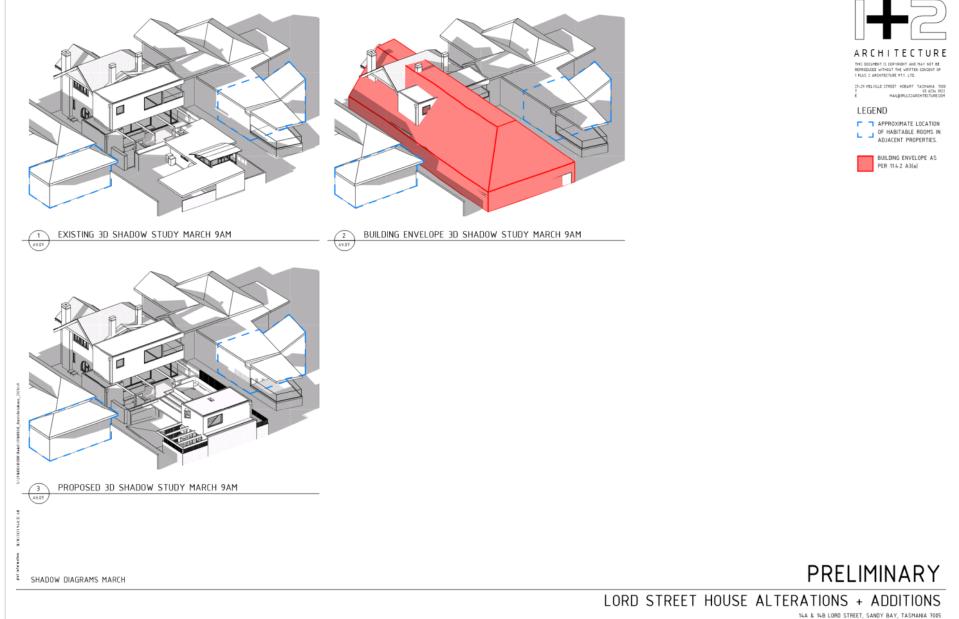
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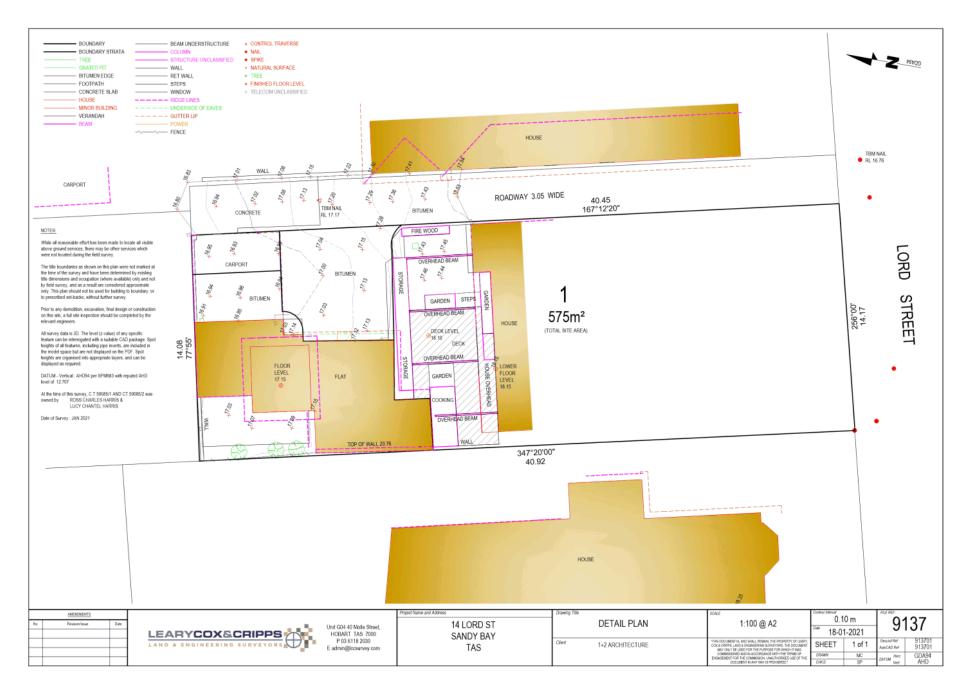
A9.06 A

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2016HRAH 18.10.21

A9.07 A





18.10.2021 Attention: Planning Officer City of Hobart 16 Elizabeth Street Hobart TAS 7001

To Whom It May Concern,

14a & 14b LORD STREET, SANDY BAY TASMANIA 7005 PLN-21-532

PID: 5619873 & 5619881 Certificate of Title: 59085/1 & 2

Please find attached revised application for alterations and additions to 14a & 14b Lord Street, Sandy Bay 7005.

Included with this letter are the following documents:

DOCUMENT	DETAIL
Architecture	A0.00 B Cover Sheet
Drawings	A1.01 B Existing Site Plan
	A1.02 B Proposed Site Plan
	A1.03 A Existing Lower Level Floor Plan
	A2.01 B Lower Level Floor Plan
	A2.02 B Upper Level Floor Plan
	A2.03 B Roof Plan
	A3.01 B Proposed Building Elevations
	A3.02 B Proposed Building Elevations
	A3.03 A Existing Building Elevations
	A3.04 A Existing Building Elevations
	A4.01 B Building Sections
	A4.02 B Building Sections
	A4.03 B Building Sections
	A9.01 A Vehicle Swept Paths
	A9.02 B Shadow Diagrams June
	A9.03 B Shadow Diagrams December
	A9.04 A Shadow Diagrams March
	Architecture

1 PLUS 2 ARCHITECTURE PTY. LTD. ABN 50 099 399 621 DIRECTORS CATH HALL + FRED WARD MIKE VERDOUW 31 MELVILLE STREET HOBART TASMANIA 7000 T 6234 8122 F 6234 8211 E MAIL@IPLUS2ARCHITECTURE.COM S\2015HRAH\ViorCAD\03 AUTHORITES & PUBLIC UTILITES\0301 Planning Authority\06 - 3102 0211 Counc RRI Response Letter\viola Lord Street RRI Response

2 +

		A9.05 A Shadow Diagrams June
		A9.06 A Shadow Diagrams December
		A9.07 A Shadow Diagrams March
Aldanmark	Hydraulic	H0.01 A Index
	Engineering	H0.02 A Engineering Notes
	Drawings	H1.01 A Site Services Plan
		H2.01 A Drainage Services Plan – Ground Floor
		H2.02 A Drainage Services Plan – Upper Level
		H2.03 A Drainage Services Plan – Roof
		H4.01 A Hydraulics Details - 1
		H4.02 A Hydraulics Details - 2

In response to City of Hobart Request for Information dated 23 August 2021 for application PLN-21-532 please refer below.

PLN Fi1, Item 1

Please confirm the number of existing and proposed dwellings on the parent lot. Plan A1.01 A appears to show three dwellings, two on lot 1 and one on lot 2.

Please refer to A1.01 B, there is currently 1 dwelling on Lot 1 and 1 dwelling on Lot 2. The proposed development will maintain the current number of total dwellings.

PLN Fi1, Item 2

The proposed double garage and rear unit would sit outside the building envelope on the side and rear boundaries, please provide justification for the proposed development to enable assessment against clause 11.4.2.P3(a)(iv) and (b) of the Hobart Interim Planning Scheme 2015 which states:

(iv) visual impacts caused by the apparent scale, bulk or proportions of the dwelling when viewed from an adjoining property; and

(b) provide separation between dwellings on adjoining properties that is consistent with that existing on established properties in the area.

Particularly in relation to the height of the boundary walls and the two storey component.



3 **+**

The proposed development has been sited with consideration given to numbers 12 and 16 Lord Street to minimise the impact upon their access to natural light and distant landscape views. Proposed boundary walls are generally consistent with existing boundary walls. The apparent bulk of the proposed two-storey dwelling, as viewed from 10 Lord Street and 11 Duke Street, has been minimised through the use flat roofs and a stepped massing to reduce the overall bulk and minimise the encroachment on the building envelope. The overall height and bulk of the proposed scheme is significantly less than that permitted by the building envelope.

PLN Fi1, Item 3

The setback of the proposed roof terrace would not comply with the permitted setback of 3m from the side boundary or 6m from the private open space of a dwelling on the same site. Please clarify whether any other measures are proposed to minimise overlooking of:

- The dwelling on the adjoining property at 16 Lord Street and its private open space
- The private open space of the proposed dwelling at 14b Lord Street

Please also confirm whether the garden part of the roof garden would or would not be accessible.

The proposal has been amended with the inclusion of a screening device to provide visual privacy from the proposed roof terrace of 14b Lord Street to 16 Lord Street in accordance with the requirements of the Acceptable Solution 11.4.6 A1. The planters shown on the terrace are predominately inaccessible, except for occasional maintenance access.

PLN Fi1, Item 4

Despite the angle of the bedroom window for the proposed rear unit, the window would not comply with the permitted setback of 3m from the side boundary Please clarify whether any other measures are proposed to minimise overlooking of: The private open space at 16 Lord Street.

The fixed and openable glazing to the bedroom of the proposed dwelling on Lot 2 will have obscured glazing to mitigate any overlooking of private open spaces at 16 Lord Street in accordance with Acceptable Solution 11.4.6 A2 (b)(ii).



PLN Fi1, Item 5

Clause 10.4.8.requires a waste storage area for multiple dwellings. On a site plan, please demonstrate how the proposal would comply with either the acceptable solution or the performance criteria for this clause which states

Waste storage facilities for Lot 1 and Lot 2 are shown on plan A2.01 B.

PLN Fi6, Item 1

Solar access diagrams showing the sunlight to habitable rooms (excluding bedrooms) of any dwellings on adjoining lots, at 9.00am, 12.00pm and 3.00pm on March and June 21st, with the proposed development and with the existing development on the site.

Please refer to drawings A9.02 to A9.07 for solar access diagrams.

For items *HER Fi 1 to 3* please refer to revised architectural drawings included this letter which describe the existing dwelling and proposed materials for all new elements.

For items *Sw 1, Sw 6* & *TW1*, please refer to documents supplied by Aldanmark included with this letter.

Should any further detail or clarifications be required, please contact 1 + 2 Architecture.

Kind regards,

For 1 Plus 2 Architecture Pty. Ltd.

Malit

Michael Carlotto

	HYDRAULIC SERVICES D HARRIS 14A LORD STREET SANDY BAY TAS 7005	RAWINGS								
	H0.01 INDEX H0.02 ENGINEERING NOTES H0.03 WORKPLACE HEALTH & SAFETY NOT H1.01 SITE SERVICES PLAN H2.01 DRAINAGE SERVICES PLANS - UPPER H2.02 DRAINAGE SERVICES PLANS - NOOF H2.03 DRAINAGE SERVICES PLANS - ROOF H4.01 HYDRAULIC DETAILS - 1 H4.02 HYDRAULIC DETAILS - 2	OR LEVEL	B 05/11/2021 B 05/11/2021 B 05/11/2021 B 05/11/2021 B 05/11/2021 B 05/11/2021 B 05/11/2021 B 05/11/2021							
		CRAVIN: CHICKED	SL TW				CLENT HARRIS MODESS	PROJECT HARRIS RESIDENCE	SHEET. INDEX SCALE	T0TAL \$22E:
B A REV.	PLANNING APPROVAL 18/1	DESION: 1/2021 DESION CHECK: 0/2021 CERTIFIER: ATE APPROVA	SL TW	4	ALDANMARK CONSULTING ENGINEERS	Lover Ground 199 Macquarie Street Hobart TAS 7000 03 6234 8666 mai@aldanmark.com.au www.aldanmark.com.au	14A LORD STREET SANDY BAY TAS 7005	ISSUE: PLANNING APPROVAL 0 1 2 3 4 5m		TOTAL SHEETS: 9 A3 A3 SHEET NO. REV NO. B

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HYDRAULIC SERVICES - GENERAL NOTES

- GENERAL NOTES: 1. THESE DRAWING ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, PROJECT CONTRACT AND SPECIFICATIONS STANDARDS REFERENCES ARE THE MOST RECENT VERSION SEWER, STORMWATER AND WATER SERVICES SHALL BE IN ACCORDANCE WITH THE NCC VOL 3 (PCA), AS3500, WSAA
- CODES, TASWATER AND TO LOCAL AUTHORITY APPROVAL IT IS ASSUMED THAT ADJACENT TO THE DEVELOPMENT SITE IS ADEQUATE INFRASTRUCTURE PROVIDED BY THE
- LOCAL AUTHORITY AND OTHER STATUTORY AUTHORITIES TO SUPPLY ROAD ACCESS, WATER AND POWER AS REQUIRED BY THIS DESIGN; AND THERE IS ADEQUATE INFRASTRUCTURE OR ENVIRONMENTAL CAPACITY TO RECEIVE STORMWATER AND SEWERAGE DRAINAGE. PARTICULAR ASSUMPTIONS ARE DESCRIBED IN THE FOLLOWING SECTIONS
- THE LOCATION OF EXISTING SERVICES AND CONNECTION POINTS WHERE SHOWN ON PLANS ARE APPROXIMATE 4 ONLY AND SHALL BE CONFIRMED ON SITE. FOLLOWING AGREEMENT WITH THE SUPERINTENDANT, TERMINATE AND ABANDON REDUNDANT EXISTING SERVICES
- DISCOVERED DURING CONSTRUCTION AND MAKE A NOTE ON AS-CONSTRUCTED DRAWING. LOCATE ALL EXISTING GAS, ELECTRICAL, TELECOMMUNICATIONS, WATER MAINS, SEWER MAINS AND STORMWATER MAINS ETC. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND ADVISE THE SUPERINTENDANT OF ANYTHING THAT APPEARS NOT BE HAVE BEEN CONSIDERED IN THE DESIGN. CONFIRM ALL LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORKS
- LAYOUT OF ECONFIRMED ON SITE.
- 9 THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT A VALID BUILDING AND PLUMBING PERMIT AND START WORKS NOTICE IS IN PLACE FOR THE WORK AND THAT THE BUILDING SURVEYOR IS NOTIFIED OF ALL SITE INSPECTION REQUESTS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED BY HIS SUB-CONTRACTORS, ANY SERVICE DAMAGED IS TO BE REINSTATED IMMEDIATELY.
- ON COMPLETION OF WORKS PROVIDE THREE SETS OF AS-CONSTRUCTED DRAWINGS AND SERVICE MANUALS ALONG WITH ELECTRONIC DRAWING FILES IN POF AND DWG FORMATS SUITABLE FOR READING WITH A RECENT VERSION OF 11.
- ADOBE/AUTOCAD TO THE SUPERINTENDANT. THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING ALL SITE INSPECTIONS AND OBSERVING ALL HOLD POINTS 12 NOMINATED WITHIN THE CONTRACT, BY THE BUILDING SURVEYOR OR PLUMBING SURVEYOR. NOMINAL DIAMETERS FOR PIPES (DN) REFER TO THE INSIDE DIAMETER (ID BORE)
- CONCEAL ALL PIPEWORK IN CEILING SPACE, DUCTS, CAVITIES, WALL CHASES, CUPBOARDS ETC. UNLESS OTHERWISE
- APPROVED. THE CONTRACTOR SHALL ALLOW TO COORDINATE WITH MECHANICAL AND REFRIDGERATION SERVICES AND 15. PROVIDE TUNDISHES CONNECTED TO SEWER OR STORMWATER AS APPROPRIATE TO ALL CONDENSATE DRAINAGE AND RELIEF VALVES. ALLOW TO PROVIDE AND INSTALL MAG IN-WALL TUNDISHES WITH STAINLESS STEEL COVER WINDOW (SUPPLIED BY MA GRIFFITH) OR EQUAL APPROVED TYPE. TRENCHING FOR FLEXIBLE PIPEWORK SHALL BE IN ACCORDANCE WITH AS2566 AND AS3500
- 16. 17.
- ALL PIPEWORK UNDER TRAFFICABLE AREAS, SLABS OR PAVEMENTS IS TO BE FULLY BACKFILLED WITH COMPACTED

STORMWATER NOTES

- STORMWATER PIPE INFRASTRUCTURE HAS BEEN DESIGNED TO CONVEY A 20 YEAR ANNUAL EXCEEDANCE POSSIBILITY (5% AEP) AT A 5 MINUTE STORM DURATION, WITH OVERLAND FLOW PATHS PROVIDED FOR 1:100 YEAR ANNUAL EXCEEDANCE PROBABILITY (1% AEP). IT IS ASSUMED THAT THE DOWNSTREAM INFRASTRUCTURE AND/OR ENVIRONMENT CAN SAFELY RECEIVE THE 5% AEP EVENT WITH A 5 MINUTE STORM DURATION
- ALL MATERIALS AND WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH AS3500, NCC VOL 3 (PCA), 2 COUNCIL STANDARD DRAWINGS AND SPECIFICATION AND TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT ENGINEER.
- ALL PIPEWORK SHALL BE MINIMUM DN100 DWV SN6 AT 1:100 GRADE (1.00%) UNLESS NOMINATED OTHERWISE ON PLANS
- MINIMUM GRADE OF PAVED AREAS AND PIPEWORK SHALL BE 1 IN 100 UNLESS NOTED OTHERWISE.
- INSTALL ALL AG DRAINS TO THE REQUIREMENTS OF AS3500 AND THE NCC
- PROVIDE INSPECTION OPENINGS TO ALL DRAINAGE PIPEWORK IN ACCORDANCE WITH A\$3500 REQUIREMENTS EVEN IF NOT SHOWN IN DRAWINGS
- PIPE AND CHANNEL INFRASTRUCTURE HAS BEEN DESIGNED TO CONVEY 20 YEAR ANNUAL EXCEEDANCE POSSIBILITY (5% AEP) STORMS, WITH OVERLAND FLOW PATHS PROVIDED FOR 1% AEP STORMS. IT IS ASSUMED THAT WATER FLOWING ONTO THE DEVELOPMENT SITE IS CONTAINED WITHIN LOCAL AUTHORITY INFRASTRUCTURE FOR 5% AEP STORMS AND THE ROAD RESERVE FOR 1% AEP STORMS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY'S BY-LAWS AND AS/NZS3500 9.
- STORMWATER TRENCHES, PIPE BEDDING AND BACK FILLING TO COMPLY WITH THE CONCRETE PIPE ASSOCIATION OF AUSTRALIA INSTALLATION REQUIREMENTS FOR TYPE HS2 SUPPORT
- BELOW GROUND PIPEWORK AND FITTINGS TO BE DWV SN6, JOINTS SHALL BE OF SOLVENT CEMENT 10 TYPE OR FLEXIBLE JOINTS MADE WITH APPROVED RUBBER RINGS.
- 11. PIPEWORK SHALL BE LAID IN POSITION AND AT THE GRADES SHOWN
- 12. MINIMUM GRADE OF PIPEWORK SHALL BE 1 IN 100 UNLESS NOTED OTHERWISE (U.N.O.).
- 13 MINIMUM SIZE OF PIPEWORK SHALL BE DN100
- 14. SURFACE WATER DRAINS, CATCHPITS/GRATED PITS, AND JUNCTION BOXES SHALL BE CONSTRUCTED AS DETAILED OR AS SPECIFIED BY THE MANUFACTURER
- 15. ALL MANHOLES TO BE LOCATED CLEAR OF FUTURE FENCELINES

- SEWER NOTES: 1. ALL MATERIALS AND WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH AS3500, NCC VOL 3 (PCA), TASMANIAN APPENDIX OF THE NCC VOL 3 (PCA), COUNCIL STANDARD DRAWINGS AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD OF THE NCC VOL 3 (PCA), TASMANIAN APPENDIX OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD REWINA STANDARD AND SPECIFICATION AND DESCRIPTION OF THE NCC VOL 3 (PCA), COUNCIL STANDARD AND SPECIFICATION AND TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT ENGINEER. CONFIRM THE LOCATION AND LEVEL OF THE NOMINATED OUTLET PRIOR TO TRENCH EXCAVATION OR
- LAYING OF ANY DRAINS. ASCERTAIN FROM TASWATER ALL NECESSARY CONNECTION REQUIREMENTS AND INSTALL ALL WORK FOR CONNECTION IN ACCORDANCE WITH THESE REQUIREMENTS. SEWER TRENCHES, PIPE REDDING AND BACK FILLING TO COMPLY WITH A\$2566.8 A\$3500.2
- ALL PIPEWORK SHALL BE ADEQUATELY SUPPORTED TO AS3500.
- PIPEWORK SHALL BE CONSTRUCTED OF DWV SN5 U.N.O. PIPEWORK RECEIVING HOT DISCHARGES SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE (HDPE) OR COPPER TYPE B. PIPEWORK SHALL HAVE BE MINIMUM CLASS SNG UNLESS NOMINATED OTHERWISE ON PLANS
- PIPEWORK SHALL BE PRESSURE TESTED PROGRESSIVELY TO ENSURE NO LEAKS. ALL PIPEWORK SHALL BE CONCEALED IN WALLS, VOID SPACE OR DUCTS UNLESS NOTED OTHERWISE
- MINIMUM GRADE OF PIPEWORK SHALL BE 1:40 FOR BRANCHES AND 1 IN 60 FOR DRAINS UNLESS NOTED THERWISE
- MINIMUM SIZE OF BRANCH DN65 AND MINIMUM SIZE OF DRAINS SHALL BE DN100. WHERE FLOOR WASTE GULLIES ARE INDICATED, THE FLOORS SHALL BE GRADED TOWARDS THE OUTLET. FLOOR WASTE GULLIES CONNECTED TO LAUNDRY FIXTURES SHALL BE ANTI-FOAM TYPE.
- ALL FITTINGS TO BE ISOLATED BY AN APPROVED TRAP PRIOR TO CONNECTION TO THE SEWER LINE. PROVIDE AIR ADMITTANCE VALVES AND ATMOSPHERIC VENTS IN ACCORDANCE WITH AS3500 RECUREMENTS
- INSPECTION OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH AS3500.
- ONE OVERFLOW RELIEF GULLY SHALL BE PROVIDED FOR THE SITE WHICH SHALL BE PRIMED BY AN 15
- EXTERNAL WATER SOURCE. WHERE PIPEWORK PENETRATES FIRE RATED WALLS OR FLOORS, A FIRE STOP COLLAR SHALL BE 16
- INSTALLED. ALL WORK SHALL BE STRICTLY INSTALLED TO THE MANUFACTURER'S RECOMMENDATIONS. NO SEWER CONNECTIONS SHALL BE MADE WITHIN RESTRICTED ZONES OF STACKS AS PER AS3500.
- INSTALL LONG RADIUS BENDS AT THE BASE OF ALL STACKS AS PER AS3500 AND INCLUDE ALL BRACKETS AND SUPPORTS

- WATER NOTES: 1. WATER SERVICES TO BE CONSTRUCTED IN ACCORDANCE WITH AS3500 PARTS 1 AND 4 AND TO THE SATISFACTION OF COUNCILS (OR TAS WATER FOR EXTERNAL) DEVELOPMENT ENGINEER
- ALL CONNECTIONS TO EXISTING MAINS TO BE CARRIED OUT BY TASWATER AT CONTRACTORS COST UNLESS NOMINATED OTHERWISE ON PLANS

- NUMINALED DIHENVISE. ON FLAVIS GENERAL MATERIAS, INITALLATON & TESTING SHALL COMPLY WITH AS3500 PARTS 1 AND 4. ALL COMPER PREWORK SHALL BE HARD DRAWN TUBING TYPE 19 CONFORMING TO AS 1432. AS AN ALTERATIVITY TO SILVER SOLDERED JOINTS, PRESS FITED JOINTS MAY BE USED ALLOW TO USE THE VIEGA. PROPRESS SYSTEM WITH INSTALLATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS.
- ALL PIPEWORK SHALL BE CONCEALED WHERE POSSIBLE. WHERE PIPEWORK IS EXPOSED IT SHALL BE CHROME PLATED
- WHERE PIPEWORK IS IN CONTACT WITH DISSIMILAR METALS, THE METALS SHALL BE INSULATED AGAINST BI-METAL CORROSION
- MINIMUM COVER TO BE 750mm UNDER TRAFFICABLE AREAS; 600mm ELSEWHERE UNLESS NOMINATED OTHERWISE ON PLANS.
- PROVIDE STOP VALVES AT ALL BRANCH OFFTAKES.
- ALL TRENCHES UNDER TRAFFICABLE AREAS, INCLUDING DRIVEWAYS, TO BE BACKFILLED WITH COMPACTED FCR. ELECTROMAGNETIC TRACKING TAPE TO BE PLACED OVER ALL TRENCHES CONTAINING WATER PIPES 50 Ø OR 11
 - GREATER ABOVE HAUNCHING.
- ALLISCLATION VALVES SHALL BE POSITIONED IN APPROVED ACCESSIBLE LOCATIONS. VALVES LOCATED IN DUCTS OR WALLS SHALL BE POSITIONED BEHIND APPROVED TYPE ACCESS COVERS. 12
- 13 ALL SCREWED STOP VALVES SHALL HAVE UNION COUPLINGS AND BE ACCESSIBLE. GROUP VALVES WHEREVER
- POSSIBLE
- 14 ALL COPPER PIPEWORK SHALL BE HARD DRAWN TURING TYPE 'B' CONFORMING TO AS 1432
- ALL POLYETHYLENE PIPEWORK SHALL BE PN16 PE100 CONFORMING TO AS 4130.
- THRUST BLOCKS SHALL BE INSTALLED AS REQUIRED BY WSAA AND AS3500
- HOT WATER TO BE STORED AT MINIMUM 60°C WITH TEMPERING DEVICE INSTALLED TO LIMIT OUTLET TEMPERATURE TO; 50°C TO ABLUTION AREAS, 60°C TO KITCHEN SINK, CLEANERS SINK AND LAUNDRY TROUGH AND TEMPERED TO 45°C WITH THERMOSTATIC MIXING VALVES IN DISABLED, CHILD CARE AND AGED CARE FACILITES TEMPERED, COLD WATER, HOT WATER PIPEWORK AND VALVES SHALL BE LAGGED AS PER ASINZS 3500.4 2018
- 18 SECTION & FOR CLIMATE REGION B. HOT WATER CIRCULATING LINE TO BE LAGGED WITH SECTIONAL ROCKWOOL WITH FOIL OUTER COVER. EXTERNAL LAGGING TO BE UV PROTECTED, AND LAGGING EXPOSED TO MOISTURE NEEDS TO BE MOISTURE PROTECTED. SOLAR FLOW AND RETURN LAGGING SHOULD BE RATED FOR TEMPERATURES UP TO 150°C, OTHER LAGGING RATED TO 105°C. ALL LAGGING SHOULD BE FIRE RATED TO NCC REQUIREMENTS, PVC FREE, ZERO OZONE DEPLETING POTENTIAL, LOW VOLATILE ORGANIC COMPOUNDS. ONE PRESSURE RELIEF VALVE SET TO 500 KPA SHALL BE PROVIDED TO ALL WATER PIPES AT THE POINT OF ENTRY
- INTO A BUILDING 20
- HOSE BIS COCKS SHALL BE 600mm ABOVE FINISHED SURFACE LEVEL AND SHALL BE 20mm IN SIZE, U.N.O., AND FITTED WITH APPROVED VACUUM BREAKERS THE PLUMBER SHALL ARRANGE FOR ALL INSPECTIONS AND TESTING OF SERVICES REQUIRED BY THE LOCAL AUTHORITY PRIOR TO CONCEAUMENT. PRESS/IRE TEST HOT AND COLD. WATER SERVICES TO 15 TIMES NORMAL WORKING PRESSURE AND FIRE SERVICES TO 1700 KPA MINIMUM PRESSURE PRIOR TO CONNECTION TO EXISTING SERVICES. PUMP EQUIPMENT SHALL BE REMOVED WHILST TESTING IS
- ALL TEMPERING AND THERMOSTATIC MIXING VALVES SHALL BE EASILY LOCATED FOR SAFE OH&S ACCESS 22 FOLLOWING COMPLETION OF THE WORKS, FLUSH ALL PIPING SYSTEMS AND LEAVE FREE OF FOREION MATTER, CLEAN OUT AERATORS, STRAINERS, FLUERALL PIPING SYSTEMS AND LEAVE FREE OF FOREION MATTER,
- HARRIS HARRIS RESIDENCE SL HEET ENGINEERING NOTES TW CHECKED SL ALDANMARK Lower Ground PLANNING APPROVAL SHEETS: A3 9 199 Macquarie Street 14A LORD STREET PLANNING APPROVAL DESIGN CHECK: TW Hobart TAS 700 CONSULTING ENGINEERS SANDY BAY TAS 7005 03 6234 8666 5m 1 2 3 4 PLANNING APPROVA 18/10/2021 ERTIFIER mail@ald 21E29-5 H0.02 В DESCRIPTION DATE APPROVAL www.aldanmark.com.a

- BUILDING HYDPAULICS: 1. ALL MATERIALS AND WORKMANSHIP TO BE DONE IN ACCORDANCE WITH AS3500, NCC VOL 3 (PCA), TASMANIAN APPENDIX OF THE NCC VOL 3 (PCA) AND LOCAL AUTHORITY REQUIREMENTS.
- ALL DRAINAGE PIPEWORK SHALL BE DWV CLASS SN5 U.N.O., ALL WASTE AND VENT SHALL BE DWV CLASS PIPE. DURING CONSTRUCTION TEMPORARILY SEAL ALL OPEN ENDS OF PIPES AND VALVES TO PREVENT ENTRY OF FOREIGN MATTER, DO NOT LISE RAGS, PAPER OR WOODEN PLUGS.
- SUPPLY AND INSTALL ALL FIXTURES, VALVES, TAPWARE AND SUNDRY ITEMS AS SCHEDULED WITHIN THE
- SPECIFICATION
- PROVIDE FIRE STOPS AS REQUIRED. CONTRACT DRAWINGS ARE DIAGRAMMATIC AND AS SUCH SHOW THE INTENT OF DESIGN, INSTALLATION TO BE AS PER ASINZS3500 ALLOW FOR ALL BENDS, OFFSETS AND OTHER MEASURES AS NECESSARY TO AVOID INTERFERENCE WITH THE STRUCTURE AND/OR OTHER BUILDING SERVICES.
- REFER TO ARCHITECTS DEMOLITION PLAN FOR REMOVAL OF EXISTING FIXTURES AND FITTINGS. THE REMOVAL OF EXISTING PLUMBING FIXTURES SHALL INCLUDE ALL ASSOCIATED WASTE AND VENT PIPES, FLOOR DRAINS, WATER SERVICE PIPEWORK BRACKETS, SUPPORTS, ETC AND SEAL OFF EXISTING SERVICES. SEAL OFF AND MAKE GOOD ALL FLOOR, WALL AND ROOF PENETRATIONS.
- THE LOCATION OF EXISTING SERVICES WHERE SHOWN ARE APPROXIMATE ONLY AND SHALL BE CONFIRMED ON 8. SITE. WHERE POSSIBLE, DETERMINE LOCATION OF EXISTING POWER, TELSTRA, WATER AND DRAINAGE SERVICES PRIOR TO COMMENCING NEW WORK.
- ALL PENETRATIONS THROUGH EXISTING SUSPENDED FLOOR SLABS SHALL BE DRILLED TO LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER. DRILL PILOT HOLE PRIOR TO CORE DRILLING TO ENSURE CLEARANCE OF BEAMS AND OTHER SERVICES IN SLAB. ALL PENETRATIONS SHALL BE CORE DRILLED TO SUIT PIPE SIZE. ALLOWANCE FOR 10 MM CLEARANCES SHALL BE MADE FOR FIRE PROOFING.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE AND SMOKE STOP WALLS. ALL PIPE PENETRATIONS SHALL BE SEALED WITH TWO HOUR FIRE STOP SEALANT. INSTALL FIRE STOP COLLARS TO PVC-U OR DWV PIPEWORK PASSING THROUGH FLOORS AND FIRE WALLS IN ACCORDANCE WITH THE MANUFACTURERS
- WRITTEN INSTRUCTIONS. PROVIDE SERVICE IDENTIFICATION AND DIRECTION OF FLOW MARKERS TO PIPEWORK IN ACCORDANCE WITH 11. AS1345
- MAKE GOOD ALL DISTURBED SURFACES TO MATCH EXISTING
- MAINTAIN SERVICES TO EXISTING FIXTURES AT ALL TIMES WHERE CHANGEOVER IS REQUIRED, LIAISE WITH THE ARCHITECT PRIOR TO THE SHUTTING DOWN OF ANY SERVICE. 13
- CONTRACTOR TO PROVIDE ALL DOCUMENTS, APPROVALS, CERTIFICATES, WARRANTIES, LOG BOOKS, ETC. UPON 14 COMPLETION OF WORKS TO THE ARCHITECT. ALL FEES AND INSPECTIONS TO BE INCLUDED AND ARRANGED BY THE CONTRACTOR.
- REFER TO THE ARCHITECTS DRAWINGS FOR SANITARY FIXTURE AND TAP SELECTIONS. SUPPLY AND FIX 15. ACCESSORIES NECESSARY FOR THE CORRECT INSTALLATION OF THE FIXTURES AND EQUIPMENT

- TASWATER NOTES: 1. ALL WORKS OUTSIDE OF THE PROPERTY BOUNDARY WILL BECOME TASWATER ASSETS. ENSURE ALL WORKS ARE INSTALLED IN ACCORDANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS NOTED WITHIN THE DRAWINGS AND ISSUED PERMITS.
- ALLOW TO ORGANISE ALL APPLICATIONS TO UNDERTAKE TASWATER WORKS AS NOTED IN THE APPROVAL DOCUMENTS AND UNDERTAKE ALL REQUIRED INSPECTIONS DURING CONSTRUCTION.
- ALL WORKS ASSOCIATED WITH PUBLIC SEWER AND WATER IS TO BE CARRIED OUT IN ACCORDANCE WITH THE WSA PARTS (2 & 03 (WATER AND SEWERAGE CODES OF AUSTRALIA) AND TO THE SATISFACTION OF TASWATER.
- ALL CONNECTIONS TO EXISTING MAINS TO BE CARRIED OUT BY THE REGULATING AUTHORITY AT COST TO BUILDER UNLESS APPROVED OTHERWISE

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WORKPLACE HEALTH AND SAFETY NOTES

- IENERAL . THE FOLLOWING RISK MITIGATION NOTES HAVE BEEN PREPARED TO ADVISE THE 'PERSON' CONDUCTING A BUSINESS OR UNDERTAKING' (PCBU) ON THE HEALTH AND SAFETY ASPECTS OF THE DESIGN IN ACCORDANCE WITH THE WORK HEALTH AND SAFETY ACT 2011 AND ARE PERTINENT TO ANY TIME WHEN THE BUILDING OPERATES AS A WORKPLACE.
- ANY THE WHEN THE BUILDING OPERATES AS A WORKPLACE. THESE MOTES MOT ON TO RECESSANEL ACCOUNT FOR ALL CONSTRUCTION, OPERATION, MANTINANCE AND DEMOLITION PRACTICES AND SAFETY RISKS. INCLUSION OR EXCLUSION OF ANY TEM DOES NOT SESCURE THE OWNER, CONTRACTOR, USER, MANTARER FOR COEDUCISHER OF THER OBLIGATIONS TO UNDERTAGE APPROPRIATE RISK MANAGEMENT ACTIVITIES AND ITS NOT AN ADMISSION THAT ANY TIER BECONST TO EMPERATION FOR ADMISSION OF ALL DOES NOT ADDITIONAL GUIDANCE ON MONPTACE HAS THAN DISAFETY IS PROVIDED IN THE FOLLOWING CODES OCONSTRUCTION UNDERVICED
- "CONSTRUCTION WORK" (CP104);
- "HOW TO MANAGE WORK HEALTH AND SAFETY RISKS" (CP11) MANAGING THE WORK ENVIRONMENT AND FACILITIES' (CP124
- "SAFE DESIGN OF STRUCTURES" (CP127).
 FURTHER ADDITIONAL AND UPDATED CODES OF PRACTICE AND OTHER GUIDANCE MATERIALS FOR FURTHER ADDITIONAL AND UPDATED CODES OF PRACTICE AND OTHER OLDANCE MATERIALS FOR THE MINIMASTING OF RIDES TO VORTILACE HEALT MAN DATERT ARE MAN ARE AVAILABLE PERDOCALL'S PROVI WORKSARE TASAMANA AT WWW WORKSARE TAS GOV AU AND DARE WORK COMMENSION CONTENT OF THE ADDITIONAL OF A VAILABLE DARE OF THE ADDITION OF THE ADDITION OF THE ADDITION OF THE COMMENSION CONTENT OF THE ADDITIONAL OF A VAILABLE ADDITION OF THE ADDITION
- SAFETY ANALYSIS
- TEMPORARY STRUCTURES AND CONTRACTOR ERECTION PROCEDURES ARE ONLY INDICATED WHERE TEMPORANT'S INCLUDES AND CONTINUE ON ERECTION PROCEDURES ARE ONLY TRACKIED WITHIN ESSINTIAL TO THE EXECUTION OF THE DESIGNA AS THOREED IN THE OCCUMENTS PROVIDED. DETAILED PROCEDURES MUST BE SOUGHT FRICK TO WORKS COMMENCENS FOR ALL ASSOCIATED TEMPORARY STRUCTURE OR REFERENTION ESSIGN AND CERTIFICATION THE CONTRACTOR IS TO ENGAGE A THIRD PARTY TO ASSIST, CERTIFY AND OVERSEE THE ERECTION OF THE WORKS.
- SITE RUPTURE OF SERVICES DURING EXCAVATION FOR OTHER ACTIVITY CREATES A VARIETY OF RISKS INCLUDING RELEASE OF HAZARDOUS MATERIAL EXISTING SERVICES MAY BE LOCATED ON OR AROUND THE BUILDING SITE. WHERE KNOWN, THESE ARE IDENTIFIED ON THE DRAWINGS: HOWEVER THE EXACT LOCATION AND EXTENT OF SERVICES MAY VARY FROM THAT INDICATED. SERVICES ULD BE LOCATED USING AN APPROPRIATE SERVICE. APPROPRIATE EXCAVATION PRACTICE SHOULD BE USED AND, WHERE NECESSARY, SPECIALIST CONTRACTORS SHOULD BE ENGAGED
- SITE ACCESS / TRAFFIC MANAGEMENT: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: "TRAFFIC MANAGEMENT IN WORKPLACES" STANDARD CONTROL. 2. ESPECIALLY FOR BUILDING ON A MALOR, MARKOW, OR STEEPL'I MICLINED ROAD. PARKING OF VEHICLES CI. LODING I JULICIDANG OF VEHICLES OF VEHICLES OF MAIL CLUBE A TRAFFIC VEHICLES CI. LODING I JULICIDANG OF VEHICLES OF MICLINES IN ALL CLUBE A TRAFFIC HAZARD, DURING CONSTRUCTION, MAINTENANCE OR DEMOLITION OF THE BUILDING, DESIGNATED PARKING FOR WORKERS AND LOADING AREAS SHOULD BE PROVIDED. FOR ALL BUILDINGS: A TRAFFIC MANAGEMENT PLAN SUPERVISED BY TRAINED TRAFFIC MANAGEMENT PERSONNEL SHOULD
- TRAFFC IMMODELENT PLAN SUPERVISED BY TRUNKED TRAFFC IMMODELENT FERSIONEL SHOULD BE IMPLIANTION FOR THE VORK STILL PUBLIC ACCESS TO CONSTRUCTION AND DEMOLTION STES AND TO AREAS UNDER IMMITEMANCE CAUGES RIKE TO MORENES AND THE PUBLIC WARMAN SENSA AND SECURE DEMOLTIONE, SIXCAVATIONA, PLANT COLLOGE MURTEMAL ARE PROVIDED WARRE ELECTRICAL ANSTALLATORE, SIXCAVATIONA PLANT COLLOGE MURTEMAL AS PERSION, THE STALLATORE, SIXCAVATIONA, PLANT COLLOGE MURTEMAL AS PERSION, THE STALLATORE, SIXCAVATIONA, PLANT COLLOGE MURTEMAL AS PERSION, THE STALLATORE, SIXCAVATIONA, PLANT COLLOGE MURTEMAL AS PERSION TO A PLANT AND TABLES TO A PLANT AND TABLES AND TABLES. SUPERVISED
- 4. BUILDING OWNERS AND OCCUPIERS SHOULD MONITOR THE PEDESTRIAN ACCESS WAYS AND, IN PARTICULAR, ACCESS TO AREAS WHERE MAINTENANCE IS ROUTINELY CARRIED OUT, TO ENSURE THAT SURFACES HAVE NOT MOVED OR CRACKED SUCH THAT THEY BECOME UNEVEN AND PRESENT A TRIP HAZARD. SPILLS, LOOSE MATERIAL, STRAY OBJECTS OR ANY OTHER MATTER THAT MAY CAUSE A SLIP OR TRIP HAZARD SHOULD BE CLEANED OR REMOVED FROM ACCESS WAYS
- CAUSE A SUP OR TREPHAZARD SHOULD BE CLEMED OR REMOVED PROMACCESS WAYS C CONTRACTORS HOULD BE REQUERED TO MANTARA A TRUVINGS RETE DURANC CONSTRUCTION, MAINTERANCE OR DEMOLIDE TROUDED MAINTAR AT DEMOLIDE STORED IN DESIGNATED AREAS ANNA'TFOLM ACCESS WAYS AND WORK AREAS C CONSTRUCTION OF BUILDING ELEMENTS THAT ARE INCESSARY TO CONTRIBUTE TO SAFE ACCESS
- TO THE BUILDING, SUCH AS HANDRAILS, SCAFFOLDING, ACCESS STAIRS, FALL ARREST SYSTEMS ETC., MUST TAKE PLACE PRIOR TO PROGRESSING WITH ANY OTHER WORKS FOR WHICH THOSE ELEMENTS WILL BE REQUIRED

IF THE BUILDING SITE IS ADJACENT TO ANY BODY OF WATER ADEQUATE PROTECTION AND ACCESS PREVENTION SHALL BE PROVIDED THE CONTRACTOR IS TO PREPARE A SAFE WORK METHOD STATEMENT FOR ANY WORKS REQUIRED TO BE UNDERTAKEN OVER WATER.

THE CONTRACTOR IS TO PROVIDE ADEQUATE LIGHTING AND VENTILATION TO ALL AREAS REQUIRED TO BE OCCUPIED BY WORKERS DURING CONSTRUCTION, PRIOR TO THE COMMISSIONING OF THE BUILDING, FINAL LIGHTING AND VENTILATION MUST BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE B.C.A.

FIRE AND ENERGENCY

PLANNING APPROVAL

PLANNING APPROVAL

DESCRIPTION

RE AND EMERGENCY: ADEQUATE STIF SPECIFIC FIRE EQUIPMENT AND EMERGENCY EVACUATION PROCEDURES ARE TO BE PROVIDED AND MAINTINEED BY THE CONTRACTOR DURING WORKS CONSITE ACCORDING TO A SAFE MOVEN METHOD STITEMENT TO ER PRAPARE BY THE CONTRACTOR FIROR TO WORKS COMMENCING OKSITE. PROR TO THE COMMISSIONING OF THE BULDING, FINAL FIPE PROTECTION EQUIPMENT SHALL BE FROVIDED IN ACCORDANCE WITH THE REQUIREMENT OF THE E.C.A.

- ELECTRICAL: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: "WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND ELECTRIC LINES' AND MANAGING ELECTRICAL RISKS IN THE WORKFLACE' (CPI17) AND AS 3012 STANDARD CONTROLS. 2. UNDERGROUND POWER LINES MAY BE LOCATED IN OR AROUND THE SITE. ALL UNDERGROUND POWER
- LINES MUST BE ACCURATELY LOCATED AND FITHER DISCONNECTED OR ADEQUATE EXCLUSION ZONES DELINEATED PRIOR TO ANY CONSTRUCTION MAINTENANCE OR DEMOLITION WORK COMMENCING
- DELIBATED PROFID TO ANY CONSTRUCTION, MAINTENANCE OR DEBUGUIDON WORK COMBECIÓN OVERHEAD POVER NUES MAY EL COLOSTED ON OR REAT PLAST TADO PERSONS WORKNO ABOVE O STRUCTOR APPROACHED DY LIFINO DEVICES DO CHERE PLANT AND PERSONS WORKNO ABOVE OROUND LEVEL WARET TREVE IS A DABRES OF THIS OCCUMENT, DAVID FUEL ASSOLUDE BY, WHEET PRACTICAL, DISCOMECTED DR RELOCATED WHERE THIS IS NOT PRACTICAL, CLEARLY DERIFFED EXCLUSION, ZORS AND APPROACH DEDIVICES SHALL BE ESTABLISEED AD MANTANED.

EXCAVATION 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: "EXCAVATION WORK" (CP107) STANDARD CONTROL

- CONSTRUCTION OF THE BUILDING AND SOME MAINTENANCE ON THE BUILDING MAY REQUIRE CONSTRUCTION OF THE BULCINIO AND SOME MAINTENANCE ON THE BULDING MAY REQUIRE EXCANATION MAIN BURSTALIATION OF TELES VITININ THE SCANATION. WHERE PRACTICAL, INSTALIATION SHOULD ES CARRED OUT USING INSTHIOSOS THAT DO NOT REQUIRE WORKERS TO BHTER THE EXCANATION WHERE THE IS NOT PRACTICAL. ADQUARTE SUPPORT FOR THE EXCANATED AREA BHALLE PROVIDED TO PREVENT COLLAPSE, WARMING SINGS AND BARRENS TO PREVENT ACUBENTAL ON THE PROVIDED TO ADDUCT AUXILIARIA MAIN SINGS AND BARRENS TO PREVENT ACUBENTAL ON THE ADDUCT AUXILIARIA ADDUCT ADDUCT ADDUCT 3. ANY AUXILIARIA DEPOSICIONED TANK OF FALLINO INTO OPHIE ORES ALLE BORNOTOS 3. ANY AUXILIARIA DEPOSICIONED TANTI SANIL JE PROVIDERE EN INTE ELEMENTE, ANGLE EN ANTONIS PROVENTIONA DE OPESSICIENTE SANIL ADDUCT ADDUC
- PROTECTION AND ACCESS PREVENTION SHALL BE PROVIDED. 4. THE CONTRACTOR IS TO CONSULT ANY SITE INVESTIGATION REPORTS ETC. BEFORE CONDUCTING
- ANY EXCAVATION WORKS. IN THE CASE OF ANY AREAS BEING IDENTIFIED AS HAVING GROUND CONTAMINATION PRESENT, A QUALIFIED SPECIALIST CONSULTANT SHALL BE ENGAGED TO PROVIDE REMEDIAL WORKS DESIGN AND RISK MITIGATION STRATEGIES.

CONSTRUCTION

- THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: FORMWORK AND FALSEWORK' STANDARD CONTROL
- ALL FORMWORK AND SUPPORTING SCAFFOLD STRUCTURES MUST BE DEGNED TO CARRY THE
- ALL FORMINGER AND SUPPORTING SCAFFOLD STRUCTINES MUST BE DEIGNED TO CARRY THE
 CONSTRUCTION LOADIN SEPERITY THIS SET OF DOULINETATION
 AND MUST AND ADDRESS AND ADD

PRECAST PANEL ERECTION:

- THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: PRECAST THE CONTRACTOR IS TO CONCULT WORKS IF ACCORDANCE WITH THE CORE OF PRACTICE PRECAST IS LOW AND CONTRACTOR IS TO CONCULT WORKS IF ACCORDANCE WITH THE CORE OF PRACTICE IS LOW AND CONTRACTOR IS A CONTRACTOR OF A CONTRACTOR OVERFLOAD CONTRACTOR OF A CONTRACTOR OVERFLOAD CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OVERFLOAD CONTRACTOR OF A CONTRACTOR OVERFLOAD CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF OVERFLOAD CONTRACTOR OF A CONTRA
- POINTS. WHERE APPROPRIATE AN APPROVED SPREADER BEAM IS TO BE USED. 4. PATHWAYS OF OVERHEAD TRAVEL OF PANELS ARE TO BE CLEARLY MARKED AND ACCESS TO THESE RESTRICTED DURING LIFTING.
- PANEL REARING AND LOCATING PLATES AND DOWELS ARE TO BE CHECKED FOR FINAL LOCATION
- PAREL BEARING AND LOCATING PLATES AND DOWELS ARE TO BE CHECKED FOR FAUL LOCATION. PAREL ROPPING NAD TENFORMSY SUPPORT MUST BE LOCATEOWITH APPROVED ANCRES AND APPROPRIATE CHECKS AND DESIGNS FOR CARACITY, NUMBER AND CONFIGURATION OF FROPS IS TO BE CONDUCTED FORCH TO ERECTION TEMPORARY SUPPORTING STRUCTURE DURING CONSTRUCTION NOT FROVIDED AS PART OF THESE DESIGN DOCUMENTS AND MUST BE OBTAINED PRIOR TO ERECTION STRUCTURAL STEEL ERECTION: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: WELDING

TW

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TW

CHECKED

18/10/2021

DATE

DESIGN CHECK:

APPROVAL

CERTIFIER

- PROCESSES' (CP134), 'ABRASIVE BLASTING' (CP101) AND 'SPRAY PAINTING AND POWDER COATING (CP131) STANDARD CONTROLS. 2. CONTRACTOR IS TO ENSURE THAT CRANE SIZE AND LOCATION IS ADEQUATELY ASSESSED FOR
- CONTRACTOR IS TO BEGUE THAT CRANE SIZE AND LOCATION IS ADEQUATELY ASSESSED FOR COMPACT REFORM THE FRANCE IS EXECTED THIS IT TO CAUGH SIZE IS NOT ATTRET TO CAME OPECHTE FOR THE FRANCE IS EXECUTED. THIS IT TO CAUGH SIZE IS NOT ATTRET TO CAUGH OVERHEAD CONTRACT, AND TRAFF, HAZARDS. CONTRACT SIZE OF THE FOR FRANCE MOMENTS IS TO BE CHECKED ADAINST APPROVED INTERACTION POINTS, WERE APPROPRIATE AN APPROVED SPEARER REAL IS TO BE USED. PRIVATYS TO CIVERIAD TAVALLO CHARAND AUBERERS AND THE CLARS Y MARKED AND PRIVATYS TO CIVERIAD TAVALLO CHARAND AUBERERS AND THE CLARS Y MARKED AND
- ACCESS TO THESE RESTRICTED DURING LIFTING. 5. TEMPORARY PROPPING WORK IS TO BE PROVIDED TO ENSURE STABILITY OF THE FRAMES DURING
- ERECTION. ALL STEEL FRAMES ARE TO BE TEMPORARY BRACED, UNTIL STRUCTURE IS FULLY ERECTED AND ALL CONNECTIONS BOLTED OR WELDED TOGETHER AS REQUIRED. TEMPORARY SUPPORTING STRUCTURE DURING CONSTRUCTION IS NOT PROVIDED AS PART OF THESE DESIGN
- SUPPORTING STRUCTURE DURING CONSTRUCTION IS NOT PROVIED AS PART OF THESE DESIGN DOCUMENTS AND UND TO BATARIA PROVIDE DE RECTON. STEE BABED TREATMENTS OF STEEL FRAMMO BEMERS (EG. CUTTING, WELDING, ORT BLASTING, STRAF YARMER, CTI STO DE UMMENDE WHEREVER FORSBUEL # STE BABED TREATMENT S HANDORABLE, ACECUATE PROTECTION, SCREENNO AND VENTLATION TO MININGE HAZARDS TO PERSONELL STO DE PROVIED ANDO STEE BABE HOT WORKS WHERE POSSBUEL FUNAVODABLE, STE SBECFIC PROCEDURES FOR HOT WORKS PRAVIES TECLARE TO BE FOLSBUEL

- WORKING AT HEIGHTS: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: MANAGING THE RISK OF FALLS AT WORKPLACES' (CP122), "PREVENTING FALLS IN HOUSING CONSTRUCTION" (CP127), "SCAFOLDS AND SCAFFOLDING WORK" AND AS 1657 STANDARD CONTROLS. S SCAFFOLDING MUST BE SECURED AND BRACED TO RESIT OVERTURING: SINGLE PROFS MUST NOT
- RE USED UNLESS A DESIGN CHECK ON STABILITY IS MADE AND THEY ARE FIXED TO A STABLE BASE AT MIDEOINTS
- CONTRACTOR IS TO USE PASSIVE FAIL PREVENTION DEVICE IF POSSIBLE (IF FIXED PLATFORM CHERRY PICKERS ETC.

- CONCRETE STRESSING: 1. CONTRACTOR IS TO ENSURE THAT CONCRETE STRENGTH MEETS REQUIRED CAPACITY AT TIME OF STRESSING. 2. RESTRICTED STRESSING AREAS ARE TO BE PROVIDED TO ALL AREAS WHERE STRESSING IS TAKING
- PLACED BOTH AT LIVE AND DEAD ENDS OF STRESSING DUCTS CONTRACTOR MUST ENSURE THAT AT ALL TIMES DURING STRESSING ONLY QUALIFIED AND
- APPROVED PERSONNEL HAVE ACCESS TO DESIGNATED STRESSING AREAS SUARS THAT SUPPORT CONTINUED TEMPORARY STRUCTURE MUST BE BACK PROPRED BACK
- PROPPING MUST BE CHECKED AND APPROVED PRIOR TO ANY ADDITIONAL CONSTRUCTION
- CRANES AND OTHER MECHANICAL PLANT: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: "CRANES", MANAGING THE RISKS OF PLANT IN THE WORKPLACE"(CP1/23), "INDUSTRIAL LIFT
- TRUCKS' AND AS 2550 STANDARD CONTROLS. 2. MECHANICAL LIFTING OF MATERIALS AND COMPONENTS DURING CONSTRUCTION, MAINTENANCE OR DEMOLITION PRESENTS A RISK OF FALLING OBJECTS. CONTRACTORS SHOULD ENSURE THAT APPROPRIATE LIFTING DEVICES ARE USED. THAT LOADS ARE PROPERLY SECURED. AND THAT ACCESS TO AREAS BELOW THE LOAD IS PREVENTED OR RESTRICTED
- ACCESS TO AREAS BELOW THE LOAD IS PREVENTED ON RESTRICTED. CONTRACTOR IS TO ENSURE THAT CAME SIZE AND LOCATION IS ADEQUATELY ASSESSED FOR CAPACITY BEFORE ANY LIFT. THIS IT TO INCLUDE BUT IS NOT LIMITED TO CRARE SUPPORT BEARING, LOCATION OF UNDERGROUND SERVICES, OVERTURNNO, LIFTING CAPACITY, OVERHEARD OESTRUCTIONS AND TRAFFIC HAZARDS.

EXISTING BUILDINGS

DEMOLITION

- THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE
- The CONTRACTORY STOCKNOWN CONSIGNATION OF THE CONCEPTION OF THE CONCEPT CUTTING OR REMOVAL OF EXISTING CONCRETE AND REINFORCEMENT

EXISTING STRUCTURAL ADEQUACY

- WHERE EXISTING STRUCTURAL ELEMENTS ARE DAMAGED OR EXHIBIT SIGNIFICANT SECTION LOSS. WHERE EXISTING STRUCTURAL ELEMENTS ARE DAMAGED OF EXHIPTI SIGNFICANT SECTION LOS, A SUTARLY QUALIFIED STRUCTURAL REINGREES SHALL DE RONGOET DO EXISON A SYSTEM FOR STABLISMO (SUPPORTINO THE EXISTING STRUCTURE, SUCH THAT ALL WORK AREAS WILL BE ADECUARTEY SHE FOR BULLION WORKS TO COMBENCE ANY SUBFICIANT ESCIONAL OSS OR CORROSON OF EXISTING STRUCTURAL ELEMENTS SHALL BE REPORTED TO THE ENABLER PRIOR TO PRIOCEBORY WITH WORKS.
 ANY EXISTING RETAINING STRUCTURES PRESENT ON THE STRUCTURE DE NEELSUBSCI ZO BENCIUSED FOR EXISTING STRUCTURES PRESENT ON THE DETS MALL BE REPORTED TO SHE ENABLED COLORED STRUCTURAL BUDGED TO ACCENTAR THE EXISTING THE EXCLUSION ZOBE STRUCTURES PRESENT ON THE DESTING THE EXCLUSION ZOBE STRUCTURES.
- ESPECIALLY WITH REGARD TO ANY EXCAVATION, THE OPERATION OF HEAVY SURFACE PLANT AND EQUIPMENT, OR STOCKPILING MATERIAL ADJACENT TO EXISTING RETAINING STRUCTURES. 3 NO EXCAVATION SHALL BE PERFORMED ADJACENT TO ANY EXISTING STRUCTURE ESPECIALLY BELOW THE 45° LINE FROM THE UNDERSIDE OF AN EXISTING FOOTING WITHOUT THE EXPRESS

PERMISSION OF THE STRUCTURAL ENGINEER

- ASBESTOS 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: HOW TO MANAGE AND CONTROL ASBESTOS IN THE WORKPLACE"(CP111) AND HOW TO SAFELY REMOVE ASBESTOS"(CP115) STANDARD CONTROLS. 2. FOR ALTERATIONS TO OR DEMOLITION OF A BUILDING CONSTRUCTED PRIOR TO 1990, IF THE BUILDING
- WAS CONSTRUCTED PRIOR TO:
- 1990 IT MAY CONTAIN ASBESTOS

LIENT: HARRIS

14A LORD STREET

SANDY BAY TAS 7005

1986 - IT IS LIKELY TO CONTAIN ASBESTOS - 1980 - ITI SLINELY TO CONTAIN ASBESTOS; EITHER IN CLADON MATERILA CON INFRE-RETARDANT INSULATION MATERIAL IN EITHER CASE, THE BUILDER SHOULD INSPECT AND, IF NECESSARY, HAVE ANY ASBESTOS REMOVED BY A SUTABLE CALIALFED FIRSON BEFORE DEMOLISHING, CUTTING, SANDING, DRILING OR OTHERWISE DISTURBIO THE EXISTING STRUCTURE.

Lower Ground

03 6234 8566

Hobart TAS 7000

www.aldanmark.com.a

mai@alda

ALDANMARK Lower Ground 199 Macquarie Street

CONSULTING ENGINEERS

PRIOR TO ANY WORKS COMMENCING AN APPROPRIATE METHOD OF PAINT REMOVAL AND DISPOSAL IS TO BE DETERMINED, PARTICULARLY ON HISTORIC STRUCTURES, COATINGS CONTAINING COAL TAK EPOXIES, BITUMEN AND ASPHALTS, ZINC CHROMATE AND LEAD AMONG OTHERS PRESENT A HEALTH RISK. ADEQUATE SCREENING IS TO BE PROVIDED TO THE PUBLIC AND THE SURROUNDING ENVIRONMENT DURING PAINT REMOVAL AND CLEANING OPERATIONS. ENVIRONMENTALL APPROPRIATE METHODS ARE TO BE EMPLOYED DURING MAINTENANCE AND REPAIR WORK

HAZARDOUS SUBSTANCES 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: MANAGING RISKS OF HAZARDOUS CHEMICALS IN THE WORKPLACE" (CP120) STANDARD CONTROL

POWDERED MATERIALS:

VANDEREN VALERIALS: LIMAY MATERIALS USED IN CONSTRUCTION CAN CAUSE HARM IF INHALED IN PONDERED FORM. PERSONS WORKING ON OR IN THE BUILDING DURING CONSTRUCTION, OPERATIONAL MAINTENANCE OR ERBUCTION SHOULD BINUE GOOVENTLATICH AND WARE HESINGAL PROTOCTIVE EQUIPARY, INCLUDING PROTECTION AGAINST IMMALATION WINE USING POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WHEN SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL OR WINE SIMONE OF THE SIMONE OF THE WINE BOUND POWDERED INTERNAL OR WINE SIMONE ORLING, CUTTING OF THE WINE BOUND POWDERED INTERNAL TO MARKE THE ORLING OF THE POWDERED INTERNAL TO MARKE THE ORLING OF THE POWDERED OF THE SIMONE OF THE POWDERED INTERNAL TO MARKE THE POWDERED OF THE POWDERED OF THE SIMONE OF THE POWDERED OF THE POWDERED

TREATED TIMBER

THE DESIGN OF THE BUILDING MAY INCLUDE PROVISION FOR INCLUSION OF TREATED TIMBER WITHIN THE STRUCTURE, DUST OR FUMES FROM THIS MATERIAL CAN BE HARMFUL PERSONS WORKING ON OR IN THE BUILDING DURING CONSTRUCTION OPERATIONAL MAINTENANCE OR NORKING ON OR IN THE BUILDING DURING CORSTRUCTION, OFFENTIONAL MAINTERNACE OR DEMOLTION SHOLD ENSURE GOOD VENTATION AND WEAR PERSIONAL PROTECTIVE COUPHENT INCLUDING PROTECTION AGAINST INHALATION OF HARBYLL MATERIAL WHEN SANDING, DRILLING, CUTTING OR UBING TREATED TIMBER IN ANY WAY THAT MAY CAUSE HARBIPLI MATERIAL TO BE RELEASED. DO NOT BURN TREATED TIMBER

VOLATILE ORGANIC COMPOUNDS:

 MANY TYPES OF GLUES, SOLVENTS, SPRAY PACKS, PAINTS, VARNISHES AND SOME CLEANING. WATT THE DO BOLLET US BOLLET US BOLLET AND THE RAY, MUNICIPALE AND DURE LEDWING MATTERALS AND DISNEFECTANTS HAVE DANCEROUS EMISSIONS AREAS WHERE THESE ARE USED SHOULD BE KEPT WELL VENTLATED WHILE THE MATERIAL IS BEING USED AND FOR A PERICO AFTER INSTALLATION PERSONAL PROTECTIVE COUPERINT WAY ALSO BE RECOURED. THE MANUFACTURERS' RECOMMENDATIONS FOR USE MUST BE CAREFULLY FOLLOWED AT ALL

SYNTHETIC MINERAL FIBRE: 1. GLASS FIBRE, ROCK WOOL, CERANIC AND OTHER MATERIAL USED FOR THERMAL OR ACCUSTIC INSULATION MAY CONTAN SYNTHETIC MINIRAL FIBRE WHICH MAY BE HARMFULF INHALED, OR F IT COMES INTO CONTACT WITH THE SKIN, EYES OR OTHER SENSITIVE PARTS OF THE BODY PERSONAL PROTECTIVE EQUIPMENT, INCLUDING PROTECTION AGAINST INHALATION OF HARMFUL MATERIAL SHOULD BE USED WHEN INSTALLING. REMOVING OR WORKING NEAR BULK INSULATION MATERIAL

- MINIMISES BENDING BEFORE LIFTING. ADVICE SHOULD BE PROVIDED ON SAFE LIFTING METHODS IN ALL AREAS WHERE LIFTING MAY OCCUR.

- CONTINUE DRACES 1. THE CORRECTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CORE OF FRACTICE 2. DEVELOSED PRACES (CPUS) AND AS 2265 STANDARD CONTEND. 5. DEVELOSED PRACES WITHIN THE UNDO MAY PRESENT ARES TO PERSONS ENTERING FOR CONTINUETON, MAINTENANCE OR ANY OTHER PUPPOSE, WHERE WORKERS ARE REQUIRED TO BHTER ENCLOSED PARCES, ART ENTO EQUIVERITA AREST TO PERSONAL FRONTEN ECONTENT E GUIVERN SHALL BE PROVIDED ONLY TRANED PERSONAL MENT ADDISATOR FOR SHALL CONTRACTOR 5. TO FREPARE A WORK HENCE OSTRUERAL ADDRESSION EMILIATOR OF RESION FOR THE DEVELOR OF TO REPORT AND MENT OF STREPS AND FROM THE TO THE SHALL ADDRESSION EMILIATOR OF RESION FOR THE DEVELOR OF THE OFFER AND MENT OF STREPS AND FROM THE OFFER ADDRESSION EMILIATOR OF RESION FOR THE DEVELOR OFFER AND THE DEVELOR THE DEVELOR TO THE DEVELOR ADDRESSION EMILIATOR OF RESION FOR THE DEVELOR OFFER AND THE DEVELOR THE DEVELOR THE DEVELOR TO THE DEVELOR THE DEVELOR TO THE DEVELOR THE DEVELOR THE DEVELOR THE DEVELOR THE DEVELOR TO THE DEVE
- FOR ANY SUCH WORKS, ADEQUATE SIGNAGE IS TO BE PROVIDED TO ALL TEMPORARY AND PERMANENT CONFINED SPACES IN ACCORDANCE WITH AS 2865

NORSE 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: MANAGING NOISE AND PREVENTING HEARING LOSS AT WORK' (CP118) STANDARD CONTROL

THIS BUILDING HAS BEEN DESIGNATED AS A RESIDENTIAL BUILDING. IF THE BUILDING, AT A

WORK HEALTH AND SAFETY ACT 2011 OR SUBSEQUENT REPLACEMENT LEGISLATION SHOULD

LATER DATE IS USED OR INTENDED FOR USE AS A WORKPLACE. THE PROVISIONS OF THE

HEET

21E29-5

5m

WORKPLACE HEALTH & SAFETY NOTES

HEETS 9

H0.03

A3

В

OPERATIONAL USE OF BUILDING RESIDENTIAL BUILDINGS

BE APPLIED TO THE NEW USE

HARRIS RESIDENCE

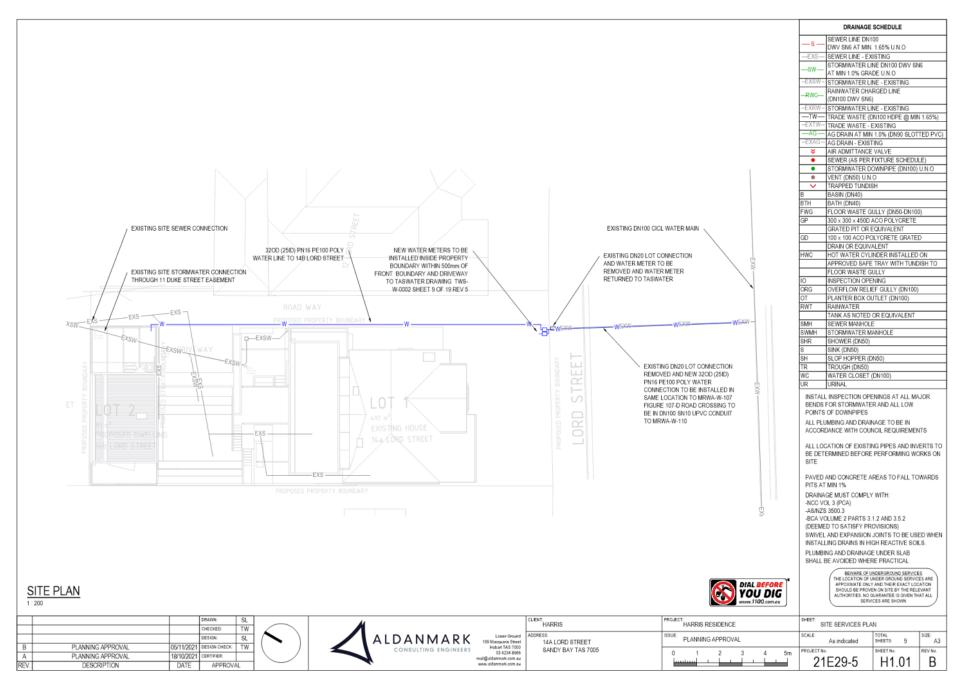
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PLANNING APPROVAL

2

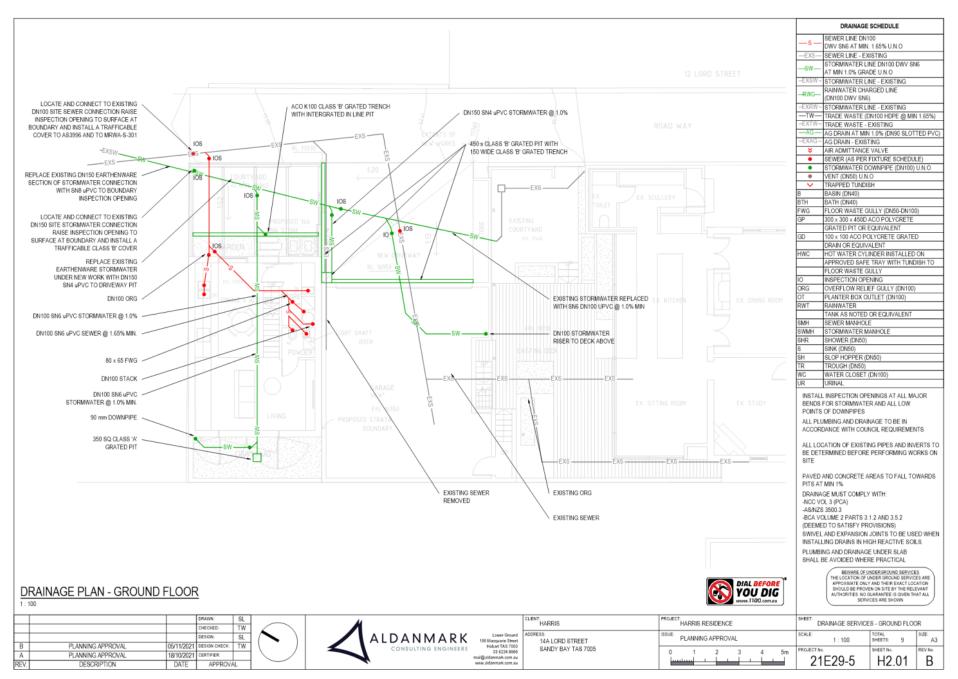
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Page 75 ATTACHMENT B

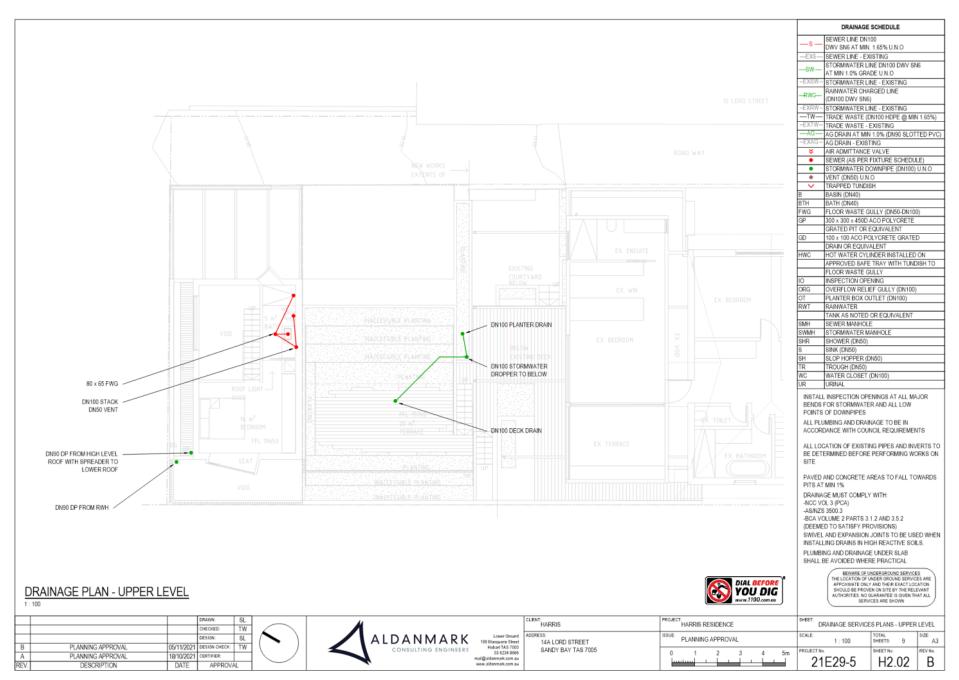


Item No. 7.1.1

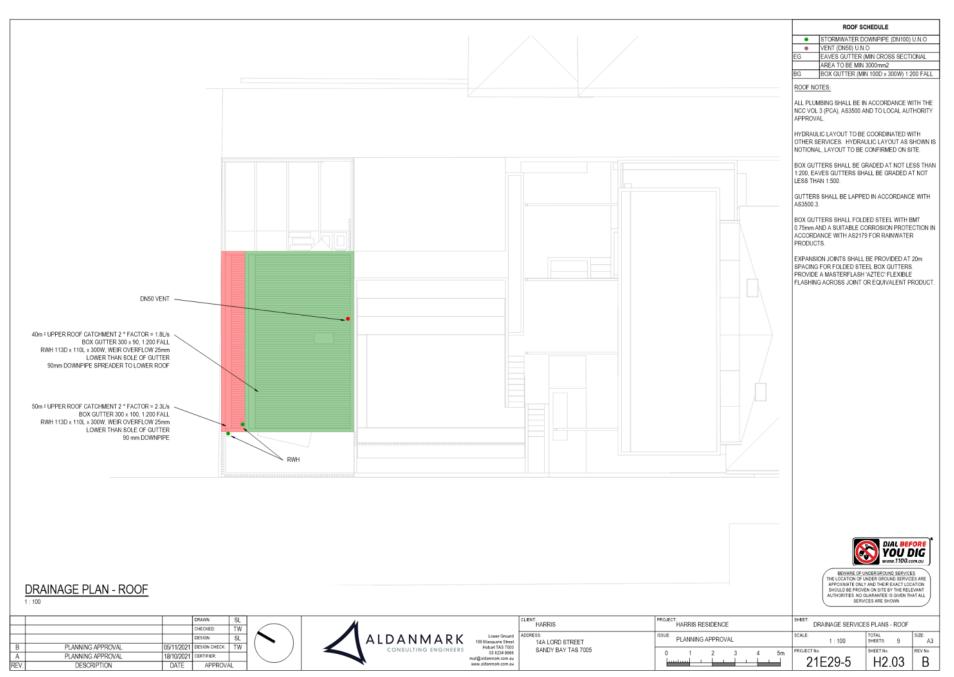
Page 76 ATTACHMENT B



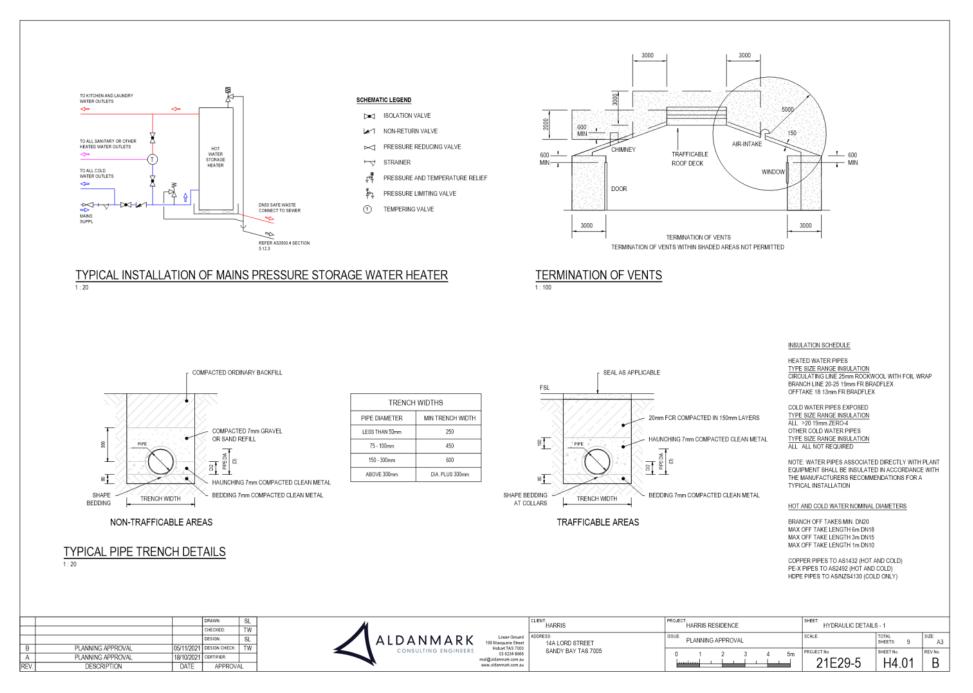
Page 77 ATTACHMENT B

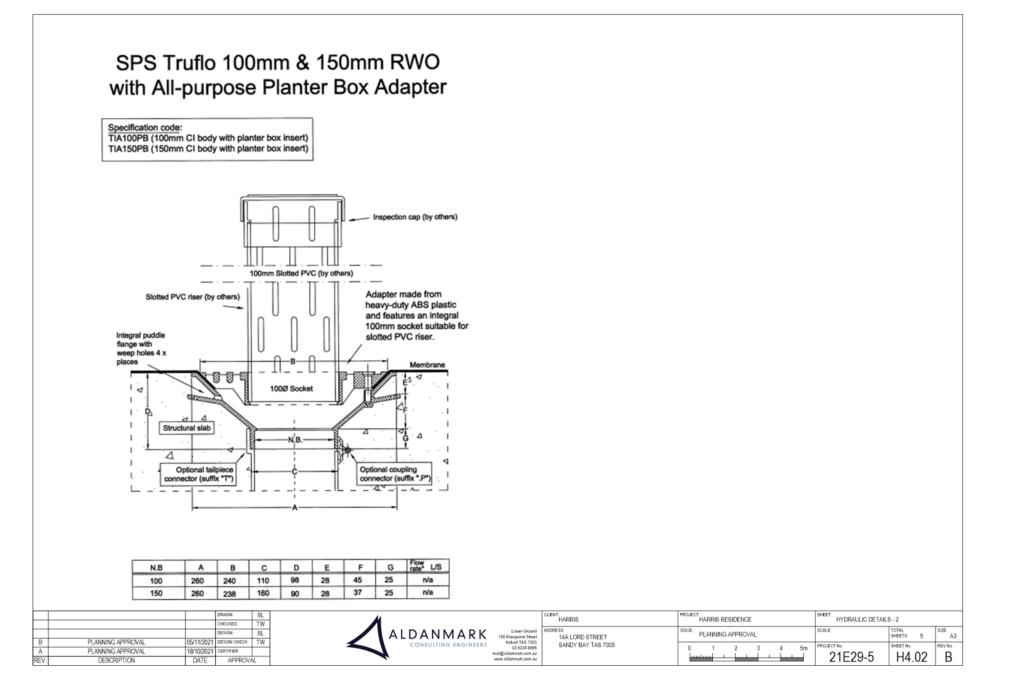


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Page 79 ATTACHMENT B







ENGINEER'S ADVICE

211116 RFI 21E29-5 HCC RFI

Inspection 🗌	Hobart City Council zehmeisters@hobartcity.com.au	Sarah Zehmesiter	To:
Instruction	1+2 Architecture Pty Ltd	1+2 Architecture	Cc:
Memo	mail@1plus2architecture.com		
—		Ross & Lucy Harris	
RFI Response 🖂	admin@twoh.com.au		
Shop Drawing Approval			

Project:	Ross & Lucy Harris: 14b Lord Street, SANDY BAY
Subject:	HCC RFI (HCC Ref: PLN-21-532)

Relevant documents:

1. Engineering design documents by Aldanmark 21E29-5 H0.01-H0.03, H1.01, H2.01-H2.03, H4.01 & H4.02 rev B 5/11/2021

2. Correspondence from City of Hobart - PLN-21-532 - 14 Lord Street Sandy Bay TAS 7005 - Planning Letter BB Not Satisfied

Dear Sarah

Further to your RFI dated 4th November and telephone conversation with Stuart Lamond (from our office) on Monday 8th November, we would like to formally confirm our response as follows:

TW1: Please find attached updated hydraulic drawings as listed above in point 1. These have been updated in accordance with TW1

SW1: Please find attached updated hydraulic drawings as listed above in point 1. These have been updated in accordance with RFI and latest CCTV survey. Summary of CCTV Survey attached.

SW6: As Stuart discussed with Sarah over there is no change in hard surface areas between the existing and proposed developments and therefore this is not required. Please refer to Architectural documentation for confirmation of existing and proposed areas if required.

Please call if you have any queries.

Regards,

White.

Tim Watson BEng (Hons) MIEAust CPEng NER Structural Engineer

Notes:

- 1. Inspections/instructions conducted by Aldanmark are for structural purposes and are not approvals to proceed and do not override the Building Act 2016 requirement for mandatory notification to the Building Surveyor by the Builder or Superintendent for inspection of works in progress and cannot be used as the sole method of assessment to grant approval to proceed.
- 2. Inspections/instructions by Aldanmark do not include components of the current National Construction Code that are outside the areas of structural engineering.
- 3. In cases where building approval is required but has not yet been obtained, this advice must not be used as the basis for performing any works until such approvals are in place.
- 4. Any advice that results in an alteration to certified documentation must be approved by the Superintendent and Building Surveyor prior to carrying out those works. Such advice assumes a nil cost variation and is based on that expectation. The contractor must obtain approval from the Superintendent prior to commencing any of these works.

211116 RFI 21E29-5 HCC RFI

CCTV Report Summary:

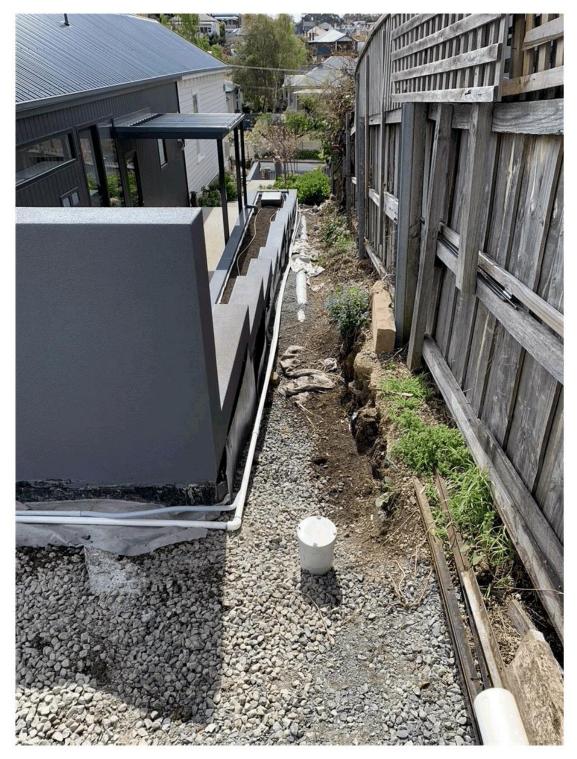
Archers attended this avo and took 2 lots of CCTV footage. The first from the IO at 14a Lord heading toward Duke St, the second from the IO at Duke heading back toward Lord.

The footage confirmed that the SW pipe runs in a straight line from the IO at 14a Lord to the downpipe on the corner of the carport at 14b Lord and then continues all the way down to the road via an IO at 11 Duke St where it joins the Council SW infrastructure.

Unfortunately we could not get CCTV footage inside the PVC pipe that runs the length of the Duke St property down to the Council junction due to a number of right angles in the newly laid PVC pipe. However, the pipe is currently visible from the surface so I have attached a photograph of this. The length of pipe from the rear boundary of 14b Lord to the Council mains is approx 50m.

As for the materials, an earthenware pipe starts at the IO at 14a Lord and continues all the way to the IO at 11 Duke St. There is a very small section of PVC pipe that has been inserted to allow for the downpipe on the carport at 14b Lord St. There were no cracks or breaks and the earthenware pipe appears in good condition.

211116 RFI 21E29-5 HCC RFI



3 of 10

211116 RFI 21E29-5 HCC RFI



4 of 10

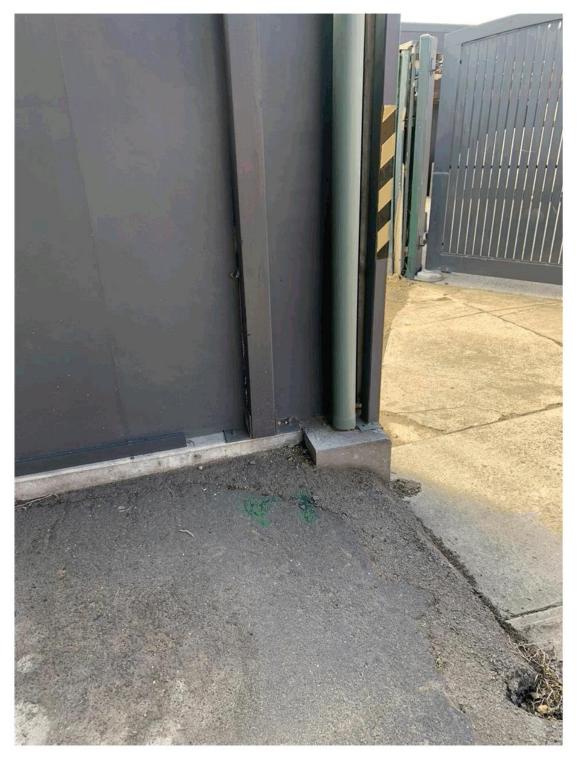
16/11/2021

211116 RFI 21E29-5 HCC RFI



5 of 10

211116 RFI 21E29-5 HCC RFI



6 of 10

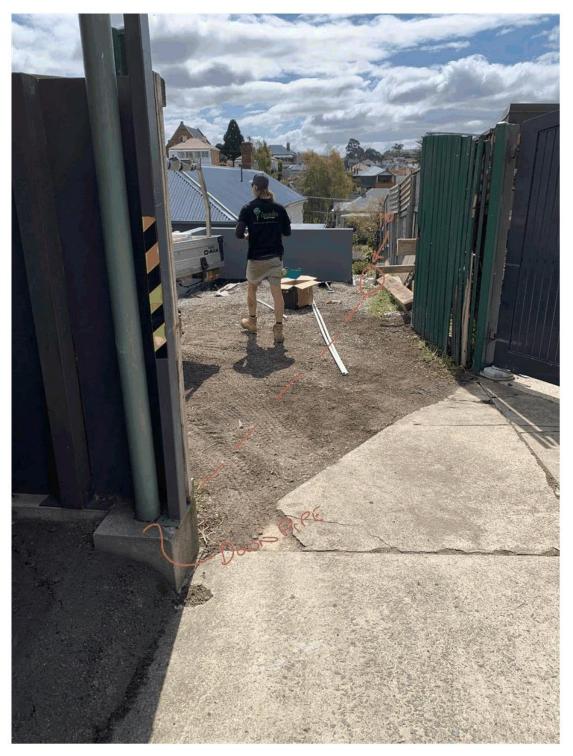
Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

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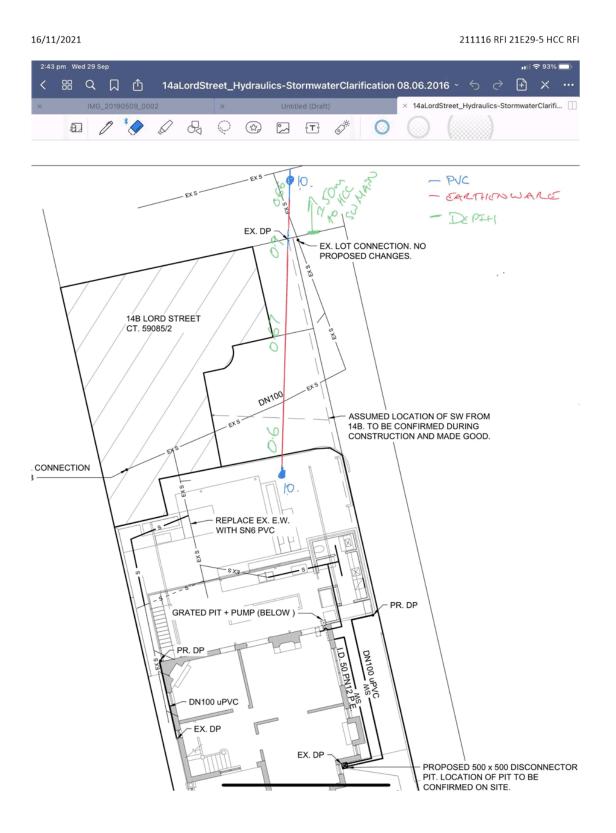
211116 RFI 21E29-5 HCC RFI

7 of 10

211116 RFI 21E29-5 HCC RFI



8 of 10



9 of 10

211116 RFI 21E29-5 HCC RFI



Planning: #238950

Property

1/14 LORE	STREET	SANDY	BAY	TAS 7005
TUTA TOTT	DITTT	DURIND T	DUFT	TTFD /00

A A BOARD DAARDER MAR & DAAR AND OUT		
	4	

People

Applicant *	
1 Plus 2 Architecture Pty. Ltd.	
Michael Carlotto	
27 Melville Street	
HOBART TAS 7000	
6234 8122	
mail@1plus2architecture.com	
Owner	
*	
Ross and Lucy Harris	
14a Lord Street	
SANDY BAY TAS 7005	
0411140078	
lhalmarick@hotmail.com	
Entered By	
1+2 ARCHITECTURE PTY LTD	
31 MELVILLE STREET	
HOBART TAS 7000	
03 6234 8122	
mail@1plus2architecture.com	

Use

Multiple dwellings

Details

Have you obtained pre application advice?

• • • Yes

If YES please provide the pre application advice number eg PAE-17-xx

Liaison with Liz Wilson and Meg Baynes from City of Hobart. Russell Dobie from Heritage Tasmania.

Are you applying for permitted visitor accommodation as defined by the State Government Visitor Accommodation Standards? Click on help information button for definition. If you are not the owner of the property you MUST include signed confirmation from the owner that they are aware of this application.

• No

Is the application for SIGNAGE ONLY? If yes, please enter \$0 in the cost of development, and you must enter the

number of signs under Other Details below. *				
• _a No				
If this application is related to	o an enforcement action please	e enter Enforcement Number		
Details				
What is the current approved *	d use of the land / building(s)?			
Residential				
Please provide a full descrip swimming pool and garage) *	tion of the proposed use or dev	velopment (i.e. demolition a	nd new dwelling,	
Demolition of existing dwel	ling, construction of new garag	ge, dwelling and roof garden /	terrace.	
Estimated cost of developme *	ent			
420000.00				
Existing floor area (m2)	Proposed floor area ((m2) Site area (m2	2)	
424.00	435.00	575		
Carparking on Site		N/A		
Total parking spaces	Existing parking spaces	Other (no selection		
3	2	chosen)		
Other Details Does the application include signage?				
No				
How many signs, please ent involved in this application? *	er 0 if there are none			
0				
Tasmania Heritage Register Is this property on the Tasmanian Heritage Register? • Yes				
Documents				
Required Documents				
Title (Folio text and Plan and Schedule of Easements) *				
2016HRAH_CombinedFolio Plans (proposed, existing)	TextPlan.pdf			
* 120821 14LordStreet Archi	tectureDrawings.pdf			
120821_14LordStreet_ArchitectureDrawings.pdf Covering Letter				
120821_14LordStreet_CoverLetter.pdf Land Survey				
913701-A2 Detail.pdf				

2H Pty Ltd

🖹 Sent - twoh.com.au 5:55 pm

Details

PLN-21-532 Attn: Planning Dept

To: CoH Mail, Cc: 1+2 Architecture, 1+2 Architecture

Dear Mr Ikin

I refer to your letter of 16 August 2021 regarding the above Planning Application. Please find below my declaration in accordance with S.52 of LUPAA notifying adjoining landowners of my intention for development.

Please be advised that on the afternoon of Friday 13th August 2021, I had a conversation with Wendy Fitzgerald, the homeowner of 12 Lord St, Sandy Bay. I informed her of our intention to submit a DA within the next week for the redevelopment of 1/14 and 2/14 Lord St, Sandy Bay.

During the conversation, I described in detail our proposed development including the nature of the demolition, the new garage proposal with roof-top garden as well as the size of the new 1-bedroom 2-storey apartment that we intend to build.

You may wish to note that this was not the first time our redevelopment has been discussed with Wendy and her husband over the last 4 to 6 months.

Please also be advised that on 18 July 2021, I had a conversation via text message with Scott Lorring, the owner of 11 Duke St, Sandy Bay. I advised him of our intention to redevelope both 1/14 and 2/14 Lord St including the demolition of the existing building and construction of a new garage and apartment. I also informed Scott of our impending demolition (commencing early 2022) of the existing boundary fence and wall between our 2 properties and our intention to replace it with concrete and blockwork.

Also, on the 17th April 2021, I met with Ben and Ann Swain, owners of 16 Lord St, Sandy Bay. I met with them on their property and advised them of our intention to redevelop the garage and apartment at 1/14 and 2/14 Lord St. I told them that we intended to undertake the demolition in early 2022. From their property, I pointed to where and how the apartment and garage would be constructed as well as describing the new roof-top garden at 1/14 Lord St.

Should you need any further information regarding these conversations, please do not hesitate to contact me.

Regards Lucy Harris (resident and owner - 1/14 and 2/14 Lord St)



Lucy Harris Creative Director 2H Pty Ltd - Construction & Renovation 0411 140 078 admin@twoh.com.au 14A Lord Street, Sandy Bay TAS 7005

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RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME 59085	FOLIO
EDITION 3	DATE OF ISSUE 07-Apr-1999

SEARCH DATE : 20-Dec-2019 SEARCH TIME : 08.53 AM

DESCRIPTION OF LAND

City of HOBART The Common Property for Strata Scheme 59085 (formerly being STR437) Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3529/26

SCHEDULE 1

STRATA CORPORATION NO. 59085, 14 LORD STREET, HOBART

SCHEDULE 2

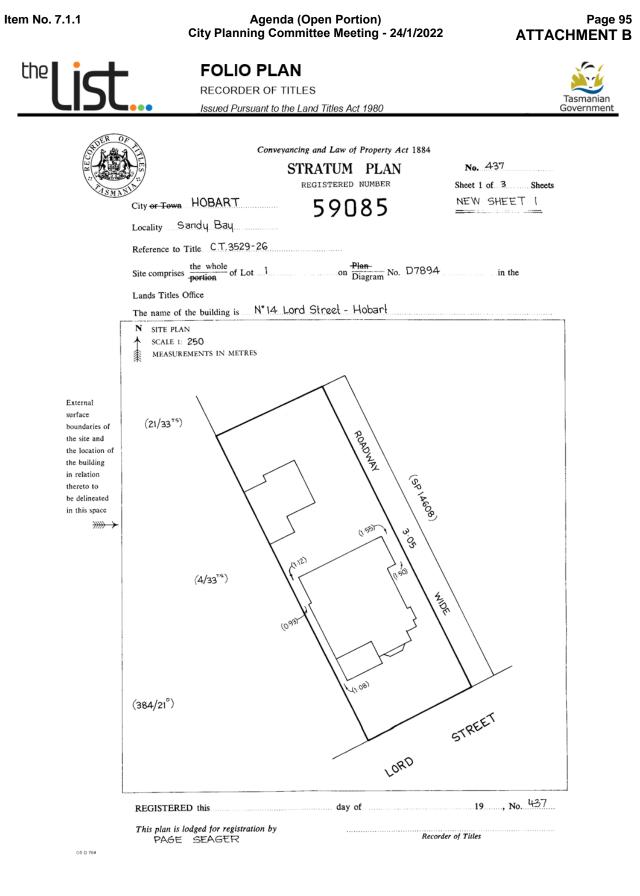
Reservations and conditions in the Crown Grant if any BENEFITING EASEMENT: full and free right and liberty for Charles Edward Innes his heirs executors administrators and assigns his and their tenants servants and visitors at all times thereafter by day or by night for all purposes with or without horses carts carriages waggons or other vehicles of any description laden or unladen for all purposes connected with the use and enjoyment of the said land within described to go pass and repass and to drive cattle sheep and other animals along over and upon the strip of land marked B.C.D.E. on Diagram No. 7894. BENEFITING EASEMENT: a right of way for Florence Mabel West her heirs executors administrators and assigns with or without horses carts carriages or waggons laden or unladen in over along and upon the strip of land marked A.B.E.F. on Diagram No. 7894. B398482 APPLICATION TO AMEND STRATUM PLAN. Registered

UNREGISTERED DEALINGS AND NOTATIONS

18-Dec-1990 at noon

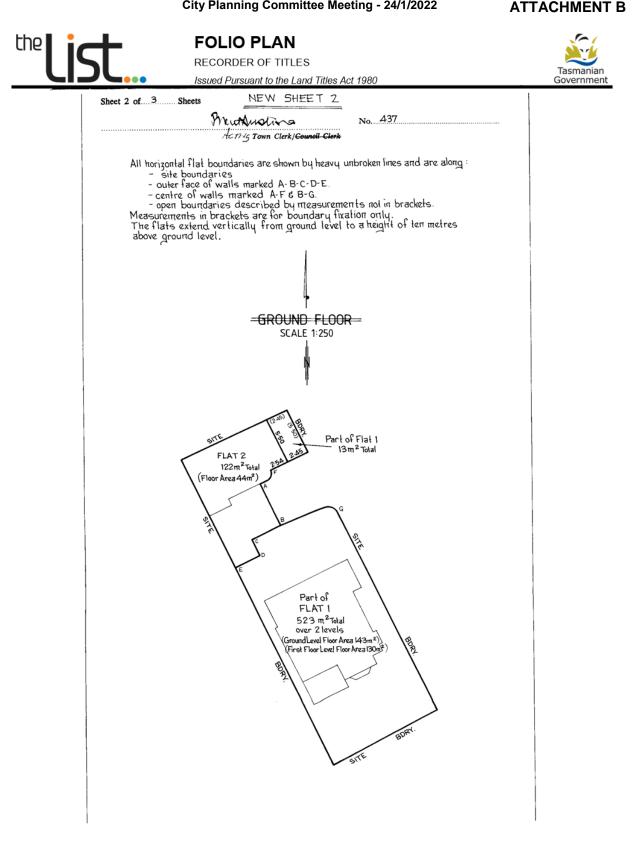
No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment



 Search Date: 20 Dec 2019
 Search Time: 08:53 AM
 Volume Number: 59085
 Revision Number: 02
 Page 1 of 3

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 Search Date: 20 Dec 2019
 Search Time: 08:53 AM
 Volume Number: 59085

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 Fearing Content of Search Time: 08:53 AM
 Volume Number: 59085

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Revision Number: 02

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FOLIO PLAN

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



Sheet 3	of 3 SI		W SHEET 3	
Heuthustrons No. 437				
	address for	service of notices on th	ne <u>SURVEYOR'S CERTIFICATE</u>	
company is:— N°14 Lord Street Sandy Bay 7005			I, Anthony Cripps Peacock of Hobart a surveyor registered under the Land Surveyor's Act 1909, hereby certify that the building erected on the site described and delineated on sheet 1 of this plan is within the external boun-	
	UNIT E	NTITLEMENTS	daries of the title stated on sheet 1.	
Flat	Unit Entitlement	FOR OFFICE USE ONLY	Dated this 22 22 day of October 19.90	
١	750		arrivery	
2	250		Surveyors Ref: P240D Registered Surveyor	
			COUNCIL CLERK'S CERTIFICATE	
			I certify that the subdivision shown in this plan	
			has been approved by the	
			HOBART CITY Council	
			Dated this 26 the day of November 90	
			mentamento.	
			AETING Town Clerk/Council Clerk	
			FOR OFFICE USE ONLY	
			"APPLICATION B398482 amending the within plan by substituting Sheet 1, Sheet 2 and Sheet 3 and by cancelling Sheet 4."	
			M. C. Rim	
			18/12/1990. Recorder of Titles.	
			1. ***** and	
TOTAL	1000			

 Search Date: 20 Dec 2019
 Search Time: 08:53 AM
 Volume Number: 59085
 Revision Number: 02
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RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME	FOLIO
59085	1
EDITION	DATE OF ISSUE
11	02-Jul-2018

SEARCH DATE : 20-Dec-2019 SEARCH TIME : 08.53 AM

DESCRIPTION OF LAND

City of HOBART Lot 1 on Strata Plan 59085 (formerly being STR437) and a general unit entitlement operating for all purposes of the Strata Scheme being a 750 undivided 1/1000 interest Derived from Strata Plan 59085 Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3538/88

SCHEDULE 1

M511440 TRANSFER to ROSS CHARLES HARRIS and LUCY CHANTAL HARRIS Registered 17-Apr-2015 at noon

SCHEDULE 2

Reservations and conditions in the Crown Grant if any The registered proprietor holds the lot and unit entitlement subject to any interest noted on common property Folio of the Register volume 59085 folio 0 BENEFITING EASEMENT: full and free right and liberty for Charles Edward Innes his heirs executors administrators and assigns his and their tenants servants and visitors at all times thereafter by day or by night for all purposes with or without horses carts carriages waggons or other vehicles of any description laden or unladen for all purposes connected with the use and enjoyment of the said land within described to go pass and repass and to drive cattle sheep and other animals along over and upon the strip of land marked B.C.D.E. on Diagram No. 7894. BENEFITING EASEMENT: a right of way for Florence Mabel West her heirs executors administrators and assigns with or without horses carts carriages or waggons laden or unladen in over along and upon the strip of land marked A.B.E.F. on Diagram No. 7894. E140967 MORTGAGE to MyState Bank Limited Registered 02-Jul-2018 at 12.01 PM

Department of Primary Industries, Parks, Water and Environment

Tasmanian

Government



RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



No unregistered dealings or other notations



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RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME 59085	FOLIO 2
EDITION	DATE OF ISSUE
15	02-Jul-2018

SEARCH DATE : 20-Dec-2019 SEARCH TIME : 08.57 AM

DESCRIPTION OF LAND

City of HOBART Lot 2 on Strata Plan 59085 (formerly being STR437) and a general unit entitlement operating for all purposes of the Strata Scheme being a 250 undivided 1/1000 interest Derived from Strata Plan 59085 Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3538/89

SCHEDULE 1

M681195 TRANSFER to ROSS CHARLES HARRIS and LUCY CHANTAL HARRIS Registered 14-Mar-2018 at 12.01 PM

SCHEDULE 2

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Department of Primary Industries, Parks, Water and Environment



RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022





RESULT OF SEARCH RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE		
VOLUME	FOLIO	
59085	2	
EDITION	DATE OF ISSUE	
15	02-Jul-2018	

SEARCH DATE : 19-Jul-2021 SEARCH TIME : 08:57 AM

DESCRIPTION OF LAND

City of HOBART Lot 2 on Strata Plan 59085 (formerly being STR437) and a general unit entitlement operating for all purposes of the Strata Scheme being a 250 undivided 1/1000 interest Derived from Strata Plan 59085 Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3538/89

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Department of Primary Industries, Parks, Water and Environment

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RESULT OF SEARCH RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022



RESULT OF SEARCH RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



Tasmanian Government

 SEARCH OF TORRENS TITLE

 VOLUME
 FOLIO

 59085
 1

DATE OF ISSUE

02-Jul-2018

EDITION

11

SEARCH	DATE	:	19-Jul-2021
SEARCH	TIME	:	08:53 AM

DESCRIPTION OF LAND

City of HOBART Lot 1 on Strata Plan 59085 (formerly being STR437) and a general unit entitlement operating for all purposes of the Strata Scheme being a 750 undivided 1/1000 interest Derived from Strata Plan 59085 Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3538/88

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UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment

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RESULT OF SEARCH

RECORDER OF TITLES
<u>Issued Pursuant to the Land Titles Act 1980</u>



Tasmanian Government

SEARCH	OF TORRENS	TITLE
VOLUME	FOLIO	
50005		

59085	0
EDITION	DATE OF ISSUE
3	07-Apr-1999

SEARCH DATE : 19-Jul-2021 SEARCH TIME : 08:53 AM

DESCRIPTION OF LAND

City of HOBART The Common Property for Strata Scheme 59085 (formerly being STR437) Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3529/26

SCHEDULE 1

STRATA CORPORATION NO. 59085, 14 LORD STREET, HOBART

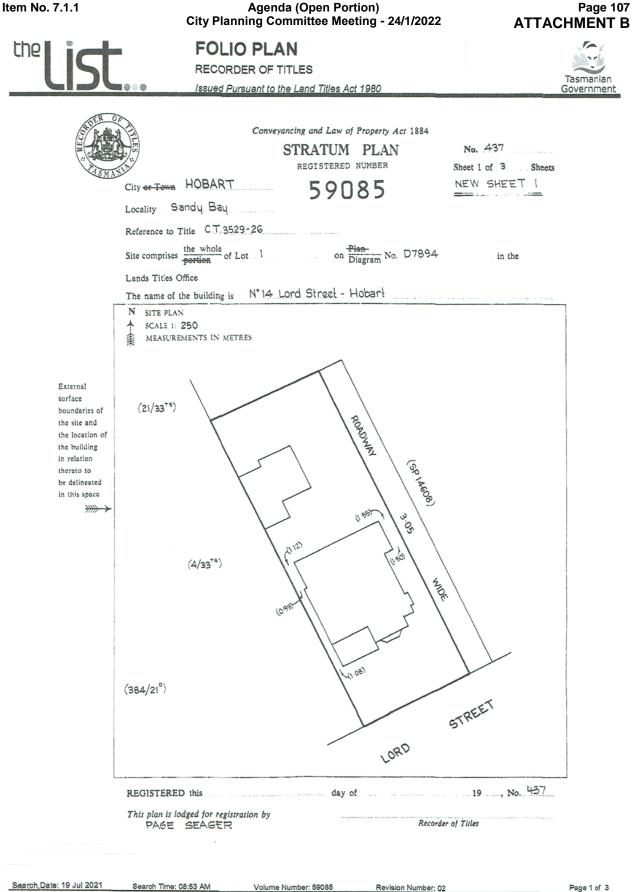
SCHEDULE 2

Reservations and conditions in the Crown Grant if any BENEFITING EASEMENT: full and free right and liberty for Charles Edward Innes his heirs executors administrators and assigns his and their tenants servants and visitors at all times thereafter by day or by night for all purposes with or without horses carts carriages waggons or other vehicles of any description laden or unladen for all purposes connected with the use and enjoyment of the said land within described to go pass and repass and to drive cattle sheep and other animals along over and upon the strip of land marked B.C.D.E. on Diagram No. 7894. BENEFITING EASEMENT: a right of way for Florence Mabel West her heirs executors administrators and assigns with or without horses carts carriages or waggons laden or unladen in over along and upon the strip of land marked A.B.E.F. on Diagram No. 7894. B398482 APPLICATION TO AMEND STRATUM PLAN. Registered 18-Dec-1990 at noon

UNREGISTERED DEALINGS AND NOTATIONS

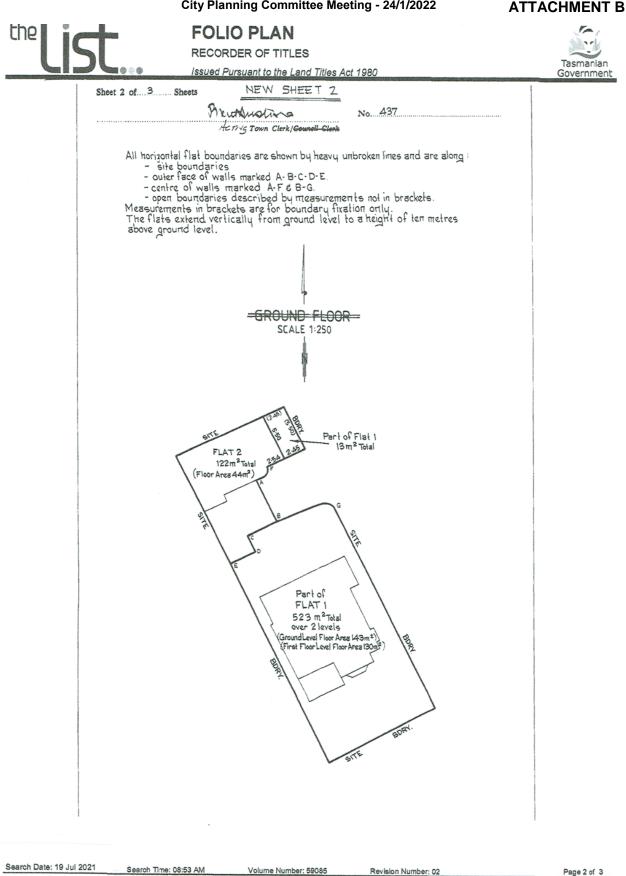
No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment



Department of Primary Industries, Parks, Water and Environment www.thelist.tas.gov.au





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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022



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Sheet 3

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TOTAL

1000

company is:---

FOLIO PLAN

C	9 0 0	RECORDER OF TITLES		Tasmanian Government
3		TAURING NEW 5	HEET 3 No. 437	
		Town Clerk/ Council Clerk	190 <i>en.e.1</i>	
The	address for	service of notices on the	SURVEYOR'S CERTIFICATE	
N° 14 Lord Street Sandy Bay 7005 UNIT ENTITLEMENTS			I, Anthony Cripps Peacock of Hobart a surveyor registered under the Land Surveyor's Act 1909, hereby certify that the building erected on the site described and delineated on sheet 1 of this plan is within the external boun- daries of the title stated on sheet 1.	
t	Unit Entitlement	FOR OFFICE USE ONLY	Dated this 22 24 day of Ochdo- 1990	
	750	-7	Continue	
	250		Surveyors Ref: P240D Registered Surveyor	
			COUNCIL CLERK'S CERTIFICATE	
			I certify that the subdivision shown in this plan	
			has been approved by the	
			HOBART CITY Council	

Dated this 26 th day of Novimes 90

Frent Ametino ACTING TOWN Clerk/Council Clerk

FOR OFFICE USE ONLY "APPLICATION B398482 amending the within plan by substituting Sheet 1, Sheet 2 and Sheet 3 and by cancelling Sheet 4."

H. C.C.A.

18/12/1990. Recorder of Titles.

Search Date: 19 Jul 2021	Search Time: 08:53 AM	Volume Number: 59085	Revision Number: 02	
Department of Primary Indust	ries, Parks, Water and Enviro	nment		VA/1

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RESULT OF SEARCH

RECORDER OF TITLES

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SEARCH OF TORRENS TITLE

VOLUME	FOLIO
59085	2
EDITION	DATE OF ISSUE
15	02-Jul-2018

SEARCH DATE : 19-Jul-2021 SEARCH TIME : 08:57 AM

DESCRIPTION OF LAND

City of HOBART Lot 2 on Strata Plan 59085 (formerly being STR437) and a general unit entitlement operating for all purposes of the Strata Scheme being a 250 undivided 1/1000 interest Derived from Strata Plan 59085 Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3538/89

SCHEDULE 1

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SCHEDULE 2

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Department of Primary Industries, Parks, Water and Environment

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

RESULT OF SEARCH

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

JNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022



RESULT OF SEARCH

Issued Pursuant to the Land Titles Act 1980



Tasmanian Government

	SEARCH	OF TORRENS TITLE
and the second s	VOLUME	FOLIO
	59085	1
	EDITION	DATE OF ISSUE
	11	02-Jul-2018

SEARCH DATE : 19-Jul-2021 SEARCH TIME : 08:53 AM

DESCRIPTION OF LAND

City of HOBART Lot 1 on Strata Plan 59085 (formerly being STR437) and a general unit entitlement operating for all purposes of the Strata Scheme being a 750 undivided 1/1000 interest Derived from Strata Plan 59085 Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3538/88

SCHEDULE 1

M511440 TRANSFER to ROSS CHARLES HARRIS and LUCY CHANTAL HARRIS Registered 17-Apr-2015 at noon

CHEDULE 2

Reservations and conditions in the Crown Grant if any The registered proprietor holds the lot and unit entitlement subject to any interest noted on common property Folio of the Register volume 59085 folio 0 BENEFITING EASEMENT: full and free right and liberty for Charles Edward Innes his heirs executors administrators and assigns his and their tenants servants and visitors at all times thereafter by day or by night for all purposes with or without horses carts carriages waggons or other vehicles of any description laden or unladen for all purposes connected with the use and enjoyment of the said land within described to go pass and repass and to drive cattle sheep and other animals along over and upon the strip of land marked B.C.D.E. on Diagram No. 7894. BENEFITING EASEMENT: a right of way for Florence Mabel West her heirs executors administrators and assigns with or without horses carts carriages or waggons laden or unladen in over along and upon the strip of land marked A.B.E.F. on Diagram No. 7894. E140967 MORTGAGE to MyState Bank Limited Registered 02-Jul-2018 at 12.01 PM

Department of Primary Industries, Parks, Water and Environment

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∎**List**...

RESULT OF SEARCH RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

INREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

epartment of Primary Industries, Parks, Water and Environment

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022



RESULI OF SEARCH RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



Tasmanian Government

SEARCH OF TORRENS TITLE

VOLUME	FOLIO
59085	O
EDITION	DATE OF ISSUE
3	07-Apr-1999

SEARCH DATE : 19-Jul-2021 SEARCH TIME : 08:53 AM

DESCRIPTION OF LAND

City of HOBART The Common Property for Strata Scheme 59085 (formerly being STR437) Derivation : Part of 89A-2R-0Ps. Gtd. to W. M. Orr Prior CT 3529/26

CHEDULE 1

STRATA CORPORATION NO. 59085, 14 LORD STREET, HOBART

CHEDULE 2

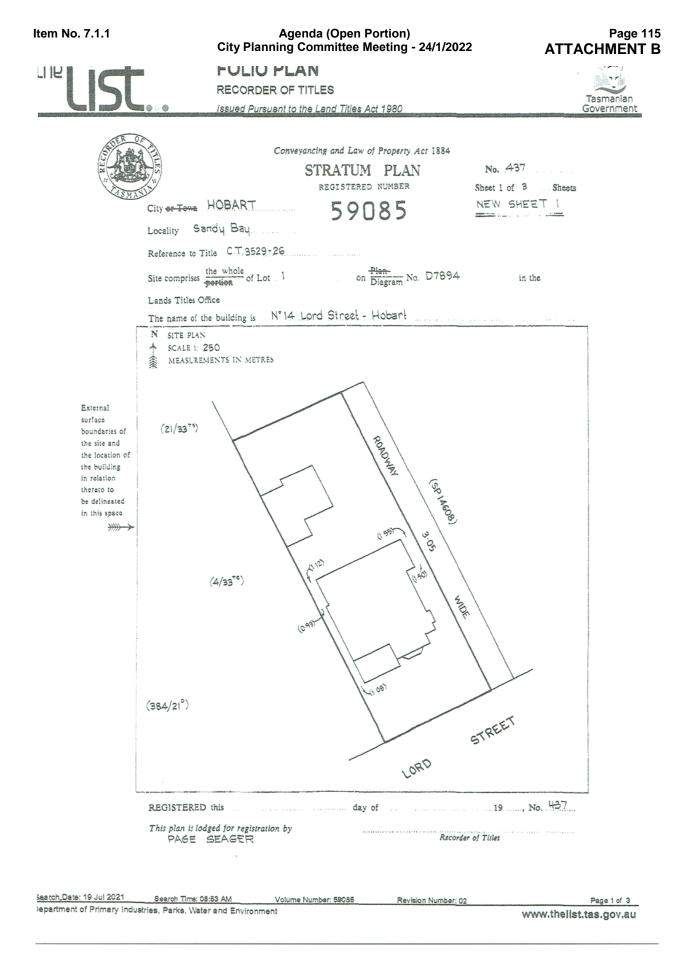
Reservations and conditions in the Crown Grant if any BENEFITING EASEMENT: full and free right and liberty for Charles Edward Innes his heirs executors administrators and assigns his and their tenants servants and visitors at all times thereafter by day or by night for all purposes with or without horses carts carriages waggons or other vehicles of any description laden or unladen for all purposes connected with the use and enjoyment of the said land within described to go pass and repass and to drive cattle sheep and other animals along over and upon the strip of land marked B.C.D.E. on Diagram No. 7894. BENEFITING EASEMENT: a right of way for Florence Mabel West her heirs executors administrators and assigns with or without horses carts carriages or waggons laden or unladen in over along and upon the strip of land marked A.B.E.F. on Diagram No. 7894. B398482 APPLICATION TO AMEND STRATUM PLAN. Registered 18-Dec-1990 at noon

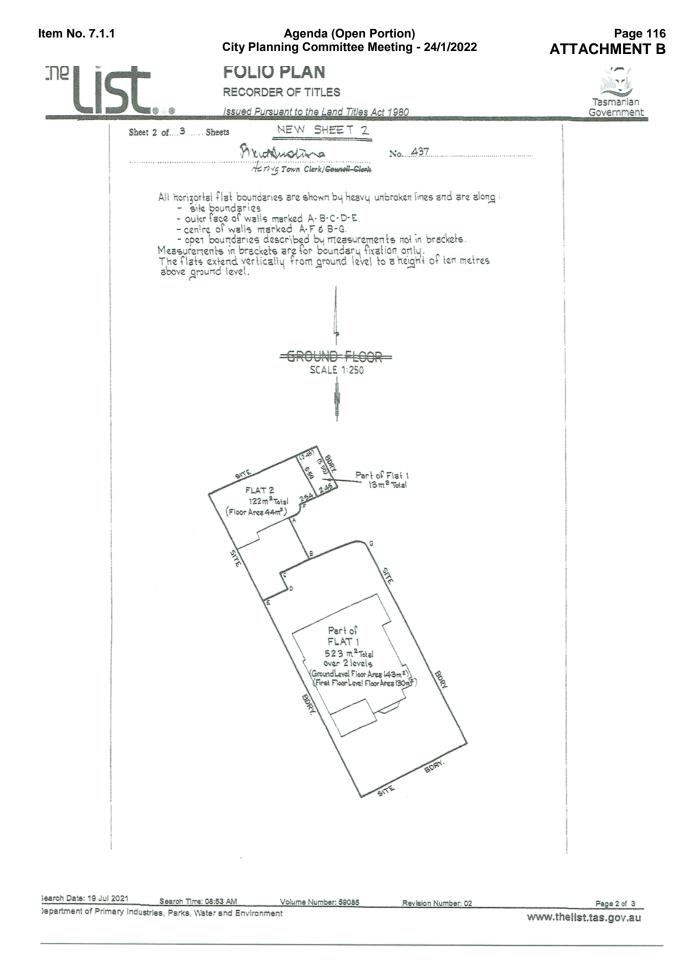
NREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

epartment of Primary Industries, Parks, Water and Environment

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022



10

~ Tasmanian Government



Sheet 3

Flat

1

2

UNIT ENTITLEMENTS

FOR OFFICE USE ONLY

Unit Entitlement

750

250

FOLIO PLAN RECORDER OF TITLES Issued Pursuant to the Land	Titles Act 1980
eet 3 of 3 Sheets NEW SH	EET 3 No. 437
Activic Town Clerk/Gounell-Clerk The address for service of notices on the company is:-	SURVEYOR'S CERTIFICATE
N° 14 Lord Street Sandy Bay 7005	I, Anthony Cripps Peacock of Hobart a surveyor registered under the Land Surveyor's Act 1909, hereby certify that the building
	erected on the site described and delineated on sheet I of this plan is within the external boun-

Surveyors Ref: P240D Registered Surveyor COUNCIL CLERK'S CERTIFICATE I certify that the subdivision shown in this plan has been approved by the HOBART CITY Council Dated this 26 the day of Noversens 90 frent Ametino Acting Town Clerk | Council Clerk FOR OFFICE USE ONLY "APPLICATION B398482 amending the within plan by substituting Sheet 1, Sheet 2 and Sheet 3 and by cancelling Sheet 4." H. B.C. Rim 18/12/1990. Recorder of Titles.

daries of the title stated on sheet 1.

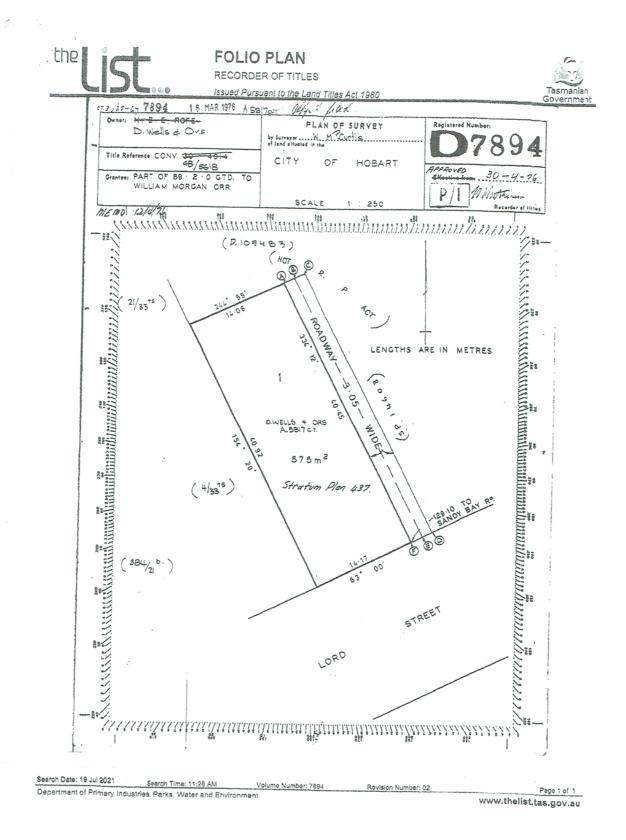
Dated this 22 24 day of October 19.90

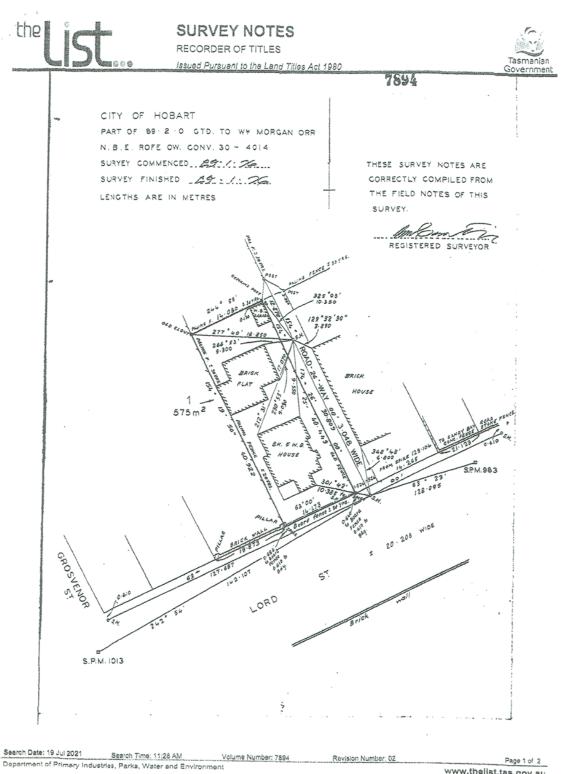
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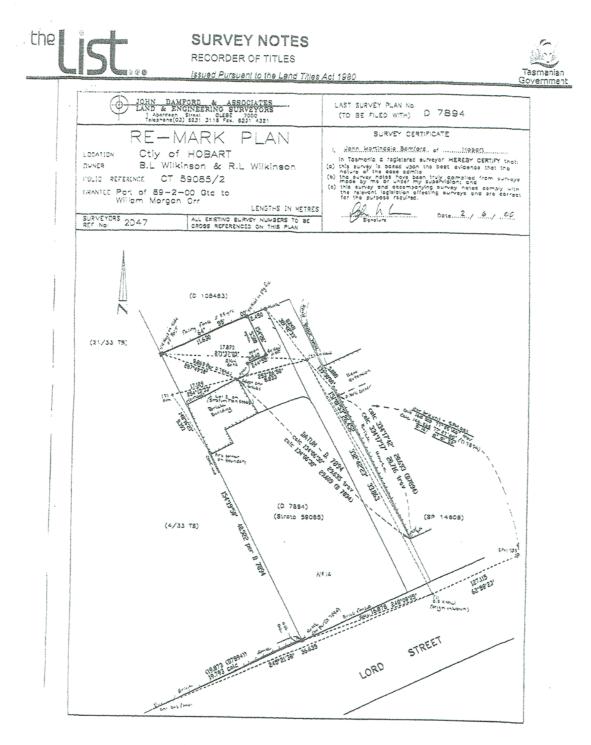
earch Date: 19 Jul 2021 Search Time: 08:53 AM Volume Number: 59085 Revision Number: 02 Page 3 of 3 epartment of Primary Industries, Parks, Water and Environment www.thelist.tas.gov.au

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022



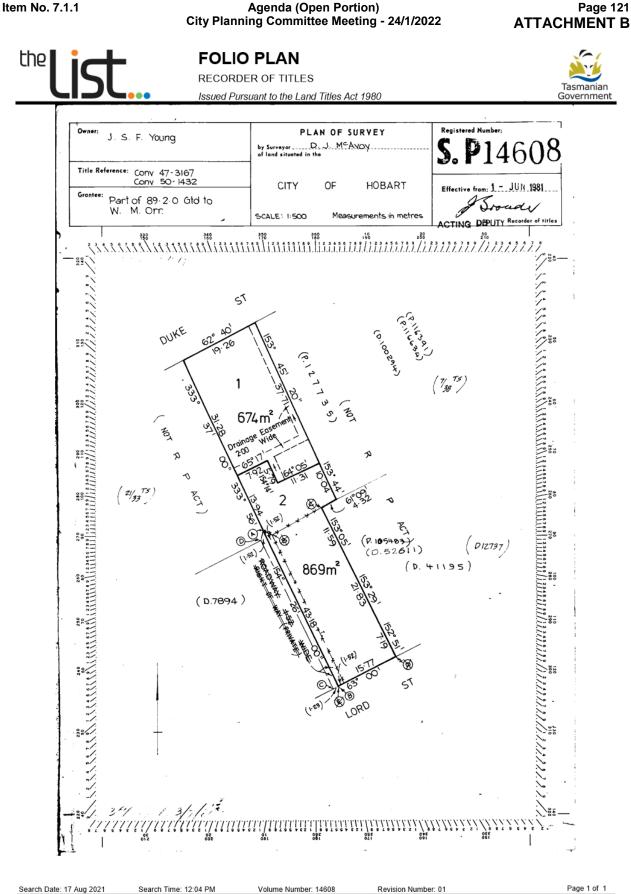


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Sharch Date: 19 Jul 2021 Anarch Date: 19 Jul 2021 Search Time: 11:28 AM V Department of Primary Industries, Parks, Water and Environment Volume Number: 7894 Revision Number: 02 Page 2 of 2

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 Search Date: 17 Aug 2021
 Search Time: 12:04 PM
 Volume Number: 14608
 Revision Number: 01
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 Department of Primary Industries, Parks, Water and Environment
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RESULT OF SEARCH

RECORDER OF TITLES
Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME	FOLIO
14608	2
EDITION	DATE OF ISSUE
1	30-Jun-1994

SEARCH DATE : 17-Aug-2021 SEARCH TIME : 12.04 PM

DESCRIPTION OF LAND

City of HOBART Lot 2 on Sealed Plan 14608 Derivation : Part of 89A-2R-0Ps Gtd to W M Orr Prior CT 3891/11

SCHEDULE 1

A866642 TRANSFER to WILLIAM JAMES FITZGERALD and WENDY BERNADINA FITZGERALD

SCHEDULE 2

Reservations and conditions in the Crown Grant if any SP 14608 EASEMENTS in Schedule of Easements B179843 MORTGAGE to Australia and New Zealand Savings Bank Limited Registered 20-Apr-1988 at noon

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment

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SCHEDULE OF EASEMENTS

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980





SCHEDULE OF EASEMENTS

Sealed Plan No. 14608

NOTE: .-- The Town Clerk or Council Clerk must sign the certificate on the back page for the purpose of identification.

The Schedule must be signed by the owners and mortgagees of the land affected. Signatures should be attested.

EASEMENTS: -

THIS COPY SCHEDULE CONSISTS OF _____PAGE/S

Lot 2 is:- Together with a full right and liberty for the Owner hereof his heirs personal representatives and assigns at all times hereafter by day or by night and for all purposes with or without horses carts carriages and waggons laden or unladen to go pass and repass and to drive cattle sheep and other animals along over and upon all that strip of land marked A.B.C.D. hereon.

Lot 2 is:- Together with a right of drainage over the drainage easement shown hereon.

Lot 1 is:- Subject to a right of drainage (appurtenant to Lot 2 hereon) over the drainage easement shown hereon.

SIGNED by JOHN SENIOR FORBES YOUNG as the Owner of land in Conveyance No. 50/1432 and the Owner of land in Conveyance No. 47/3167



The Common Seal of the Superannuation Fund Board was hereto affixed by Order at a Meeting of the Board in the presence of Øl

 Search Date: 17 Aug 2021
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 Volume Number: 14608

 Department of Primary Industries, Parks, Water and Environment
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Revision Number: 01

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SCHEDULE OF EASEMENTS

Issued Pursuant to the Land Titles Act 1980

RECORDER OF TITLES



Signed sealed and delivered by William Thomas Brewer as the Attorney for and as the act and deed of Bank of Jiew South Wales in the presence of Willie Bank Officer, Hobart, Tas.

BANK OF FFW - OUTH WALES by ite Atterney who hereby states that at a clime of executing this instrument he had no notice of the revocation of the Power of Attorney Resilter do. 18948 under the authority of which he has executed this instrument. MBALLAN Chief Manager for Tagmania.

 Search Date: 17 Aug 2021
 Search Time: 12:04 PM
 Volume Number: 14608

 Department of Primary Industries, Parks, Water and Environment
 Fearing Search Time: 12:04 PM
 Volume Number: 14608

Revision Number: 01

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SCHEDULE OF EASEMENTS

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



Page 3 of 3

Certified correct for the purposes of the Real Property Act 1862, as amended.	- .
	,
Subdivider/Solicitor for the Subdivider	
This is the schedule of easements attached to the plan ofJOHN SENIOR FORBES YOUNG (Insert Subdivider's Full Name)	
affecting land in	
Conveyance No. 50/1432 and Conveyance No. 47/3167	
(Insert Title Reference)	
Sealed by HOBART CITY COUNCIL ON 30th. JUNE 1980	
3625	

Search Date: 17 Aug 2021 Search Time: 12:04 PM Volume Number: 14608 Revision Number: 01 Department of Primary Industries, Parks, Water and Environment www.thelist.tas.gov.au

7.1.2 1/816 SANDY BAY ROAD, SANDY BAY AND COMMON LAND OR PARENT TITLE - PARTIAL DEMOLITION, ALTERATIONS AND EXTENSION PLN-21-454 - FILE REF: F22/4992

Address:	1/816 Sandy Bay Road, Sandy Bay and Common Land or Parent Title
Proposal:	Partial Demolition, Alterations and Extension
Expiry Date:	22 February 2022
Extension of Time:	Not applicable
Author:	Deanne Lang

RECOMMENDATION

That pursuant to the *Hobart Interim Planning Scheme 2015*, the City Planning Committee, in accordance with the delegations contained in its terms of reference, approve the application for partial demotion, alterations and extension at 1/816 Sandy Bay Road Sandy Bay 7005 and Common Land of Parent Title for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-454 -1/816 SANDY BAY ROAD SANDY BAY TAS 7005 - Final Planning Documents except where modified below.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice:

Under section 23 of the Urban Drainage Act 2013 it is an offence for a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

ENG 2a

Prior to first occupation or commencement of use (whichever occurs first), vehicular barriers compliant with the Australian Standard AS/NZS 1170.1:2002 must be installed to prevent vehicles running off the edge of an access driveway or parking module (parking spaces, aisles and manoeuvring area) where the drop from the edge of the trafficable area to a lower level is 600mm or greater, and wheel stops (kerb) must be installed for drops between 150mm and 600mm. Barriers must not limit the width of the driveway access or parking and turning areas approved under the permit.

Advice:

The Council does not consider a slope greater than 1 in 4 to constitute a lower level as described in AS/NZS 2890.1:2004 Section 2.4.5.3. Slopes greater than 1 in 4 will require a vehicular barrier or wheel stop.

Designers are advised to consult the National Construction Code 2016 to determine if pedestrian handrails or safety barriers compliant with the NCC2016 are also required in the parking module this area may be considered as a path of access to a building.

Reason for condition

To ensure the safety of users of the access driveway and parking module and compliance with the standard.

ENG 3b

The following aspects of the access driveway and parking module (parking spaces and manoeuvring area) require further detailed

designs:

- 1. Extent and depth of excavations abutting Council's highway reservation; and
- 2. Detailed design of any earth retaining structures abutting Council's highway reservation.

This documentation must be submitted and approved as a condition endorsement, prior to the issuing of any approval under the *Building Act 2016*. The detailed designs must:

- **1.** be prepared and certified by a suitably qualified engineer;
- 1. be in accordance with the design EAST documentation received by the Council on the 1st December 2021;
- be in accordance with the Australian Standard AS/NZS 2890.1:2004, if possible;
- where the design deviates from AS/NZS 2890.1:2004 the designer must demonstrate that the design will provide a safe and efficient access, and enable safe, easy and efficient use; and
- show dimensions, levels, gradients and transitions, and other details as Council deem necessary to satisfy the above requirement; and
- 5. show cross-sections at 2 metre intervals along the length of the driveway abutting the Sandy Bay highway reservation showing the extent of excavations, earth retaining structures, cross fall gradients, existing natural surface level (NSL) and new design levels from the back of footpath for the width of the proposed driveway (including any batter slopes).

The access driveway and parking area must be constructed in accordance with the approved detailed designs prior to first occupation.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

It is advised that designers consider the detailed design of the access and parking module prior to finalising the Finished Floor

Level (FFL) of the parking spaces (especially if located within a garage incorporated into the dwelling), as failure to do so may result in difficulty complying with this condition.

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 3c

The access driveway and parking module (parking spaces, aisle and manoeuvring area) must be constructed in accordance with the design drawings approved by Condition ENG 3b.

Prior to the commencement of use, documentation by a suitably qualified engineer certifying that the access driveway and parking module has been constructed in accordance with the above drawings must be lodged with Council.

Advice:

Certification may be submitted to Council as part of the Building Act 2016 approval process or via condition endorsement (see general advice on how to obtain condition endorsement)

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 4

The access driveway and parking module (car parking spaces, aisles and manoeuvring area) approved by this permit must be constructed to a sealed standard (spray seal, asphalt, concrete, pavers or equivalent Council approved) and surface drained to the Council's stormwater infrastructure prior to the commencement of use.

Reason for condition

To ensure the safety of users of the access driveway and parking module, and that it does not detract from the amenity of users, adjoining occupiers or the environment by preventing dust, mud and sediment transport.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENG r1

The excavation and earth-retaining structures (i.e. cuttings, retaining walls) and/or footings supporting the highway reservation must not undermine the stability and integrity of the highway reservation and its infrastructure.

Detailed design drawings, structural certificates and associated geotechnical assessments of the excavation and earth-retaining structures supporting the Sandy Bay Road highway reservation must be submitted and approved as a Condition Endorsement, prior to the commencement of work and must:

- 1. Be prepared and certified by a suitable qualified person and experienced engineer;
- 2. Not undermine the stability of the highway reservation;

- 3. Be designed in accordance with AS 4678, with a design life in accordance with table 3.1 typical application major public infrastructure works;
- 4. Take into account any additional surcharge loadings as required by relevant Australian Standards;
- 5. Take into account and reference accordingly any Geotechnical findings;
- 6. Detail any mitigation measures required; and
- Detail the design and location of the footing adjacent to Sandy Bay Road highway reservation.

The structure certificated and/or drawings should note accordingly the above. All work required by this condition must be undertaken in accordance with the approved select design drawing and structural certificates.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that the stability and integrity of the Council's highway reservation is not compromised by the development.

ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and maintained until all areas of disturbance have been stabilized or re-vegetated.

Advice:

For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

CONDITION ENDORSEMENT

If any condition requires that further documents are submitted and approved, you will need to submit the relevant documentation to satisfy the condition via the Condition Endorsement Submission on Council's online services e-planning portal. Detailed instructions can be found here.

A fee of 2% of the value of the works for new public assets (stormwater infrastructure, roads and related assets) will apply for the condition endorsement application.

Once approved, the Council will respond to you via email that the condition has been endorsed (satisfied).

Where building approval is also required, it is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016.* Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

OCCUPATION OF THE PUBLIC HIGHWAY

You may require a permit for the occupation of the public highway for construction (e.g. placement of skip bin, crane, scissor lift etc). Click here for more information.

DRIVEWAY SURFACING OVER HIGHWAY RESERVATION

If a coloured or textured surface is used for the driveway access within the Highway Reservation, the Council or other service provider will not match this on any reinstatement of the driveway access within the Highway Reservation required in the future.

STRATA AMENDMENT

You will be required to amend the strata plan pursuant to the provisions of the *Strata Titles Act 1998* in order to reflect the completed development works. Click here for more information.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

Attachment A:	PLN-21-454 - 1/816 SANDY BAY ROAD SANDY BAY TAS 7005 - Planning Committee or Delegated Report I T
Attachment B:	PLN-21-454 - 1 816 SANDY BAY ROAD SANDY BAY TAS 7005 - CPC Agenda Documents I 🖺



APPLICATION UNDER HOBART INTERIM PLANNING SCHEME 2015

City of HOBART	
Type of Report:	Committee
Committee:	24 January 2022
Expiry Date:	22 February 2022
Application No:	PLN-21-454
Address:	1 / 816 SANDY BAY ROAD , SANDY BAY COMMON LAND OF PARENT TITLE
Applicant:	DESIGN EAST PTY LTD 153 DAVEY STREET
Proposal:	Partial Demolition, Alterations, and Extension
Representations:	Five (5)
Performance criteria:	12.0 Low Density Residential Zone - Development Standards for Building and Works- Site Coverage, Impervious Surfaces and Private Open Space for Multiple Dwellings E3.0 Landslide Code, E6.0 Parking and Access Code

1. Executive Summary

- 1.1 Planning approval is sought for Partial Demolition, Alterations and Extension at 1/816 Sandy Bay Road, Sandy Bay and Common Land of Parent Title.
- 1.2 More specifically the proposal includes:
 - demolition of the existing stairs and deck at upper and ground floor levels;
 - the existing carport will be converted to a bedroom and ensuite and further excavation at ground floor level will create a new ground floor level access;
 - the existing 7.5sqm first floor deck on the eastern (rear) elevation will be demolished and a new 34sqm deck will be constructed. This deck will have the same (2.790m) side setback as the existing deck;
 - a double garage will be a constructed beneath the new deck;
 - a 1.7m high privacy screen will be erected for the full length of the southern elevation of the deck;
 - widening of the existing driveway to allow for a passing bay to be provided; and
 - installation of 900mm high bollards at 1m intervals along the first 14 m of the southern side of the driveway

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- 1.3 The proposal relies on performance criteria to satisfy the following standards and codes:
 - 1.3.1 Low Density Residential Zone Site Coverage, Area free from Impervious Surfaces, Private Open Space for Multiple Dwellings
 - 1.3.2 E3.0 Landslide Code Building and Works, Other than Minor Extensions
 - 1.3.3 E6.0 Parking and Access Code -Design of Vehicular Accesses, Vehicular Passing Areas Along an Access
- 1.4 Five (5) representations objecting to the proposal were received within the statutory advertising period between 7-21 December 2021.
- 1.5 The proposal is recommended for approval subject to conditions.
- 1.6 The final decision is delegated to the City Planning Committee, because five representations were received within the statutory advertising period.

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2. Site Detail

2.1 The subject site is located on the eastern side of Sandy Bay Road and is part of a two lot strata scheme, each containing one dwelling. The site is opposite Council's Pearce's Reserve, which in addition to being a Council owned reserve, contains 2 buildings, both of which are used as office accommodation. The adjoining property to the north (814 Sandy Bay Road) consists of vacant residential land, while the remaining properties in the immediate area are a mix of single and multiple dwellings.



Fig. 1 - the subject site is bordered in blue

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Fig. 2 - the site and dwelling which are the subject of this proposal

3. Proposal

- 3.1 Planning approval is sought for Partial Demotion, Alterations and Extension at 1/816 Sandy Bay Road Sandy Bay and Common Land of Parent Title.
- 3.2 More specifically the proposal is for:
 - demolition of the existing stairs and deck at upper and ground floor levels;
 - the existing carport will be converted to a bedroom and ensuite and further excavation at ground floor level will create a new ground floor level access;
 - the existing 7.5sqm first floor deck on the eastern (rear) elevation will be demolished and a new 34sqm deck will be constructed. This deck will have the same (2.790m) side setback as the existing deck;
 - a double garage will be a constructed beneath the new deck;
 - a 1.7m high privacy screen will be erected for the full length of the southern elevation of the deck;
 - widening of the existing driveway to allow for a passing bay to be provided; and
 - installation of 900mm high bollards at 1m intervals along the first 14 m of the southern side of the driveway

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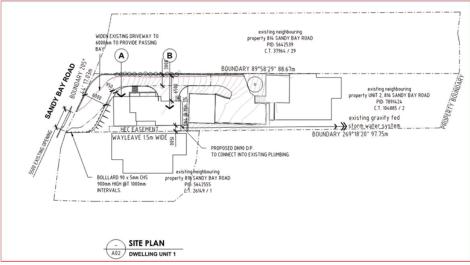


Fig. 3 - Proposed Site Plan showing the proposed works to driveway and location of the dwelling extension

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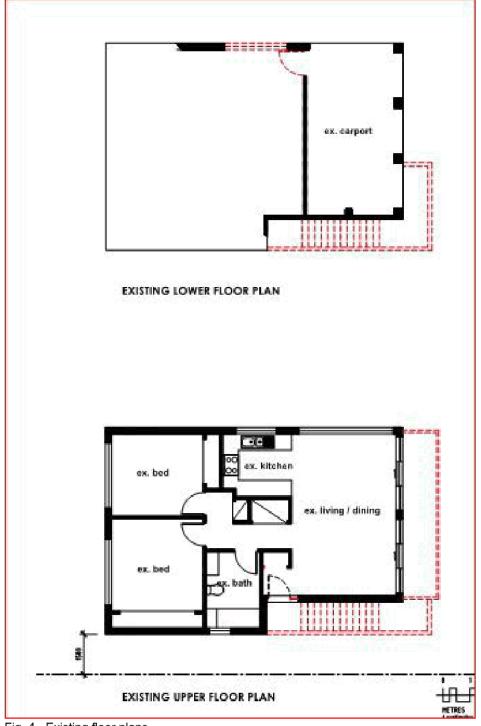


Fig. 4 - Existing floor plans

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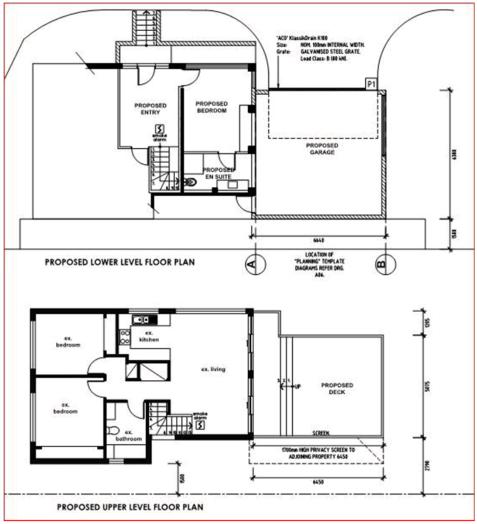


Fig. 5 - Proposed Floor plans

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Fig. 6 existing driveway - note: the existing tree stumps will be replaced with bollards



Fig. 7- existing driveway and northern elevation

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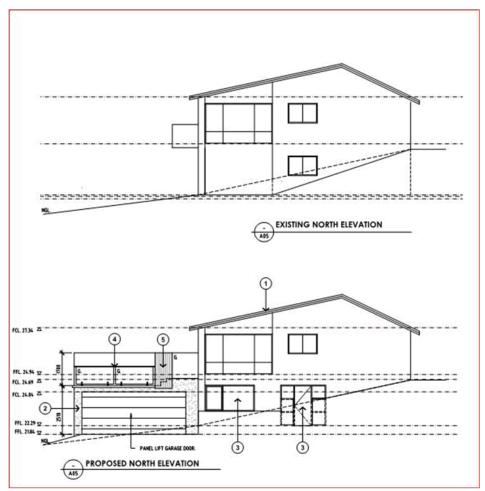


Fig. 8- Existing and proposed northern elevation

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Fig. 9 The existing deck will be demolished and a new 34sqm deck will be constructed with the same setback from side boundaries A double garage will be constructed directly under the deck.

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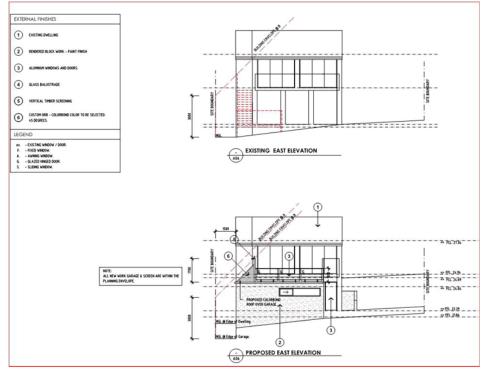


Fig. 10- Existing and Proposed East Elevation

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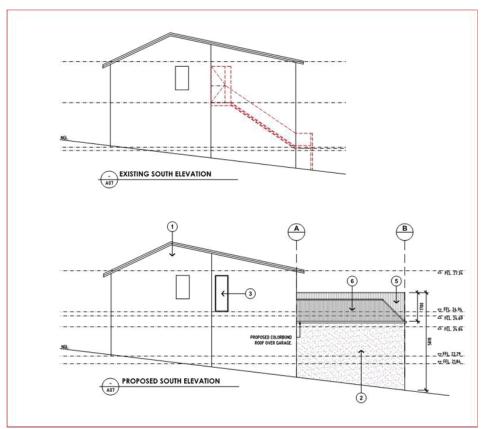


Fig. 11- Existing and Proposed South Elevation

4. Background

4.1 An application (PLN-21-203) for a partial change of use to visitor accommodation at 1/816 Sandy Bay Road was approved under delegation on the 7 May 2021. A (CEP) condition was imposed on the permit requiring the applicant to submit a Visitor Management Plan prior to the commencement of the use. Council's records confirm (as at 17 January 2022) that this plan has not been submitted to Council.

A number of representations have confirmed that the visitor accommodation use has commenced and also forwarded a copy of the Management Plan provided to them by the owner of the site. This issue has been referred to our enforcement team for consideration.

Page: 12 of 35

4.2 The application for alterations and extension to the existing dwelling has been assessed against the provisions relating to multiple dwellings within the *Hobart Interim Planning Scheme 2015*, including those which specifically relate to multiple dwellings, which are as follows:

Part D 12.4.3A1 (c)- private open space for multiple dwellings; Part D 12.4.3A2 - dimensions required for private open space; Part D 12.4.4 A1 - A3- sunlight to habitable rooms and overshadowing, including for multiple dwellings; Part D 12.4.6 A1 - A3- all privacy provisions (from decks, habitable rooms and shared driveways); Part D 12.4.8 - waste storage for multiple dwellings; and Part D 12.4.9 - residential density for multiple dwellings

- 4.3 The applicant submitted a pre-application enquiry (PAE-21-164) for the proposed works. Council's officer confirmed that all proposed internal alterations required to create the ground floor bedroom, ensuite, internal staircase and entry are exempt from obtaining planning permit.
- 4.4 It is noted that the strata lot is located a minimum setback of 50m from the escarpment line and as such no assessment is required against Part D:12.4.10A1 of the *Hobart Interim Planning Scheme 2015*.
- 4.5 The property is part of a two lot strata scheme. The existing house at 2/816 Sandy Bay Road, which is accessed via the driveway which is proposed to be upgraded, is subject to an application (PLN-21-569) for a change of use to visitor accommodation which is currently being assessed by Council.

5. Concerns raised by representors

- 5.1 Five (5) representations objecting to the proposal were received within the statutory advertising period between 7-21 December 2021.
- 5.2 The following table outlines the concerns raised in the representations received. Those concerns which relate to a discretion invoked by the proposal are addressed in Section 6 of this report.

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Driveway and Access to the site and general parking concerns

Increased traffic on a dangerous corner for entry/exit of the driveway.

Increased parking requirements using the areas opposite the existing driveway, resulting in tenants crossing Sandy Bay Road on a blind corner. We have witnessed near misses on a regular basis.

The scaling of the vehicles in diagrams indicate smaller vehicles than what is observed in the current driveway. This usually results with the vehicles parking on the street. For unit 2/816 we have observed up to 4 vehicles using the property, essentially one for each bedroom. The same would apply for unit 1/816. Essentially 7 cars shuffling in very limited space. In addition the application requires cars parking at unit 1/816 to use the driveway of unit 2 to enable turning of vehicles.

General Comments on the proposed alterations and extension and resultant use of the site

This is totally unsuitable for further development.

This development will result in creating extra noise with the building with more Airbnb people in this "default motel" established on this overall block.

Unit 1 816 has permits to be operated as a fully commercial twobedroom Unit, complete with a management plan for two-bedroom accommodation.

This new planning application (for an extension to 1/816 Sandy Bay Road) has three bedrooms, and we request reassessment of the permit for short term accommodation as it allows both properties to be jointly let and large regular parties to be held in a residential neighbourhood setting.

The significant addition of the converted garage and deck area adds yet another level of accommodation to facilitate the "party" environment outlined above. The owner has already advised neighbours that the venue has been subscribed for use as weddings and significant birthday celebrations.

Comments and complaints on the current use of the site (1 and 2/816

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Sandy Bay Road)

The owner of the subject site also owns unit 2/ 816and intends operating both as Airbnb properties.

Unit 2/ 816 Sandy Bay Road is being operated as a fully commercial 4-bedroom accommodation facility. Although it is being advertised as a family retreat with pool and spa facility, what has been observed is essentially an entertainment / party house. Numerous complaints have been lodged with both the police and Airbnb.

The conversion of unit 1/816 Sandy Bay Road into short term holiday rental was allowed with the provision of a management plan (see attached) to be circulated to the effected neighbours. This plan has been circulated to the effected neighbours but is not of the required standard.

A noise complaint was made directly to the owner on Friday 4th October by a close owner/occupier/resident and the response from the owner was unreceptive and inappropriate. Typically the owner is either unreceptive or just unresponsive to issues raised regarding management of the properties.

All nearby neighbours (6 in total) have objected already to the raised and regular noise levels.

The owner of unit 2 / 816 verbally committed to installing and developing a range of noise minimisation strategies, including new physical sound barriers, to surrounding neighbours but no infrastructure / physical minimisation structures as promised have been installed.

The owner/residents of 814, 818, U1 818a and U2 818a and 824 have noticed significant increases in light and noise pollution of what is now in essence a commercial accommodation facility (major spotlights on late into the evening / all night lighting pool area and other garden/ car areas).

Overall, all surrounding residents, including residents who are several houses away, feel the recent developments already impinge on the viability of us using our own properties as residential homes and are decreasing our own capacity to alter and enjoy our own properties.

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The increased usage due to regular commercial Airbnb utilisation has increased the amount of physical garbage, often left in bags at the top of the driveway as the existing wheelie bins are insufficient for the volume.

All direct neighbours, 814, 818 and 820 Sandy Bay Road have had to remove rubbish in the form of bottles, cans, cigarette butts which have been dropped/thrown over the fence lines.

The residents also feel that the development of 816 Sandy Bay Rd has been one of incremental stages which has enabled commercial development at an unacceptable level for a residential area. Also it is felt that the timing of the application has been planned to minimalize opportunity for effective opposition by being lodged prior to Christmas, an old but effective ploy.

Lack of information provided within documentation submitted with the application

There is no shadow diagrams and yet it will clearly overshadow 818, and may overshadow unit 2/818a Sandy Bay Road. The proposed development will reduce significantly the winter and afternoon sun to our property.

There is no retaining walls showed on the plans particularly at the top of the driveway where there will be increased car traffic (and a three metre drop to 818 Sandy Bay Road) and again at the bottom of the proposed development and the boundary to my property. As the land naturally slopes towards my property, any proposed new infrastructure should have properly engineered retaining walls as the existing wooden ones will not suffice

6. Assessment

6.1 The Hobart Interim Planning Scheme 2015 is a performance based planning scheme. To meet an applicable standard, a proposal must demonstrate compliance with either an acceptable solution or a performance criterion. Where a proposal complies with a standard by relying on one or more performance criteria, the Council may approve or refuse the proposal on that basis. The ability to approve or refuse the proposal relates only to the performance criteria relied on.

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- 6.2 The site is located within the Low Density Residential Zone of the *Hobart Interim Planning Scheme 2015.*
- 6.3 The existing use is residential (multiple dwelling). The proposed use is residential (multiple dwelling). The existing use is a permitted use in the zone. The proposed use is a permitted use in the zone.
- 6.4 The proposal has been assessed against:
 - 6.4.1 Part D 12 Low Density Residential Zone
 - 6.4.2 E3.0 Landslide Code
 - 6.4.3 E6.0 Parking and Access Code
 - 6.4.4 E7.0 Stormwater Management Code
- 6.5 The proposal relies on the following performance criteria to comply with the applicable standards:
 - 6.5.1 Low Density Residential Zone:

Site Coverage, Area free from impervious surfaces and area of private open space for multiple dwellings– Part D 12.4.3P1

6.5.2 E3.0 Landslide Code

Buildings and Works, Other than Minor Extensions, within the Landslide Hazard Area - E3.7.1P1

6.5.3 Parking and Access Code:

Design of Vehicular Accesses - E6.7.2P1 Vehicular Passing Areas Along an Access - E6.7.3P1

- 6.6 Each performance criterion is assessed below.
- 6.7 Maximum Site Coverage, Area free from Impervious Surfaces and Minimum Area of Private Open Space for Multiple Dwellings Part D 12.4.3P1
 - 6.7.1 The acceptable solution at clause 12.4.3A1 requires:

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a. a site coverage of no greater than 25%;

b. a site area of which at least 25% is free from impervious surfaces; and c. a total area of no less than 60sqm of private open space per multiple dwelling.

A portion of Lot 2 of the strata scheme is situated east of the Lower Sandy Bay Escarpment Line. This area cannot be and has not been included in the site area for the purpose of calculating the site coverage.

6.7.2 The proposal includes:

a. a site coverage of 55%;

b. an area of 15% free from impervious surfaces; and c. the dwelling subject to the application is an extension to a multiple dwelling, which will result in an area of 34sqm of open space associated with this dwelling.

- 6.7.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
- 6.7.4 The performance criterion at clause D12.4.3P1 provides as follows:

Dwellings must have:

(a) private open space that is of a size and dimensions that are appropriate for the size of the dwelling and is able to accommodate:

(i) outdoor recreational space consistent with the projected requirements of the occupants; and

(ii) operational needs, such as clothes drying and storage; and

(b) have reasonable space for the planting of gardens and landscaping.

(c) not be out of character with the pattern of development in the surrounding area; and

(d) not result in an unreasonable loss of natural or landscape values.

6.7.5 The objective of the site coverage and private open space provisions is to provide for outdoor recreation and operational needs of the residents, including that the private open space is integrated within the living areas of the dwelling, which has access to sunlight. The provisions also aim to ensure that there is opportunities for planting of gardens and landscaping

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and that the development is compatible with the existing built and natural environment of the area.

The proposal will result in the construction of a 34sqm deck, with access directly via the living/kitchen dining room and results in an extension of the living area which is appropriate for the size of the dwelling. The deck is compatible with the pattern of development in the surrounding area, as the majority of houses have large decks off the living area, which are orientated to the north east to take advantage of the sunlight and views of the River Derwent (see fig. below).

While not expressly shown on the site plan provided, it is considered that there is ample room to continue to provide for the operational needs for any resident. As evident in the photos throughout the report, there is a mature hedge within the property along the northern boundary. This will be retained. There is also opportunity for further landscaping to be undertaken along the southern boundary shared with 818 Sandy Bay Road subsequent to the demolition of the existing external stairs. While there is some existing planting, including an existing conifer between the front boundary and the dwelling, there is reasonable space to upgrade the landscaping in this area.



6.7.6 The proposal complies with the performance criterion.

Fig.12 - the view from the existing (and proposed) deck

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6.8 Landslide Code Part E3.7.1P1

- 6.8.1 There is no acceptable solution for building and works, other than minor extension in Landslide Hazard Areas.
- 6.8.2 The proposal includes works to a dwelling which is not considered to be minor works, with the Landslide Hazard Area.
- 6.8.3 There is no acceptable solution; therefore assessment against the performance criterion is relied on.
- 6.8.4 The performance criterion at clause E3.7.1P1 provides as follows:

Buildings and works must satisfy all of the following:

(a) no part of the buildings and works is in a High Landslide Hazard Area;

(b) the landslide risk associated with the buildings and works is either:(i) acceptable risk; or

(ii) capable of feasible and effective treatment through hazard management measures, so as to be tolerable risk.

6.8.5 The objective of the provisions relating to building and works (other than minor extensions) under the scheme is to ensure that the building and works within the Landslide Hazard Areas is either an acceptable risk or a tolerable risk, having regard to the feasibility and effectiveness of measures required to manage the landslide hazard.

The proposal was referred to Council's Environmental Development Planner, who undertook an assessment and provided the following report:

Approval is sought for partial demolition, alterations and extensions to an existing dwelling at 1/816 Sandy bay Road, Sandy Bay. Widening of an existing driveway is also proposed.

Landslide Code

The Code applies because development is proposed within a Landslide Hazard Area (Low Landslide Hazard Area). Small portions of the proposed garage/deck would be located within the LHA as well as a small section of driveway widening (including fill).

The land within the LHA has been modelled to be susceptible to debris

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flow.



Image1: Landslide Hazard Area relative to the site

The new building works would be exempt from the Code standards pursuant to exemptions clause E3.4(c), however the driveway widening is not exempt.

The relevant standards are under clause E3.7.1. There is no acceptable solution for A1. Performance criterion P1 states the following:

Buildings and works must satisfy all of the following:

(a) no part of the buildings and works is in a High Landslide Hazard Area;

(b) the landslide risk associated with the buildings and works is either:(i) acceptable risk; or

(ii) capable of feasible and effective treatment through hazard management measures, so as to be tolerable risk.

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No works are proposed in a High LHA in conformity with P1(a).

'Acceptable risk' is defined as 'a risk society is prepared to accept as it is. That is; without management or treatment'.

The modelled landslide susceptibility is to debris flow (run out area) from an up-slope source area, so the works should not increase the likelihood of a debris flow occurring. Given the very small scale of works proposed within the LHA, there would also be no significant change to the consequences if a debris flow did occur.

In addition, Council's in-house debris flow modelling, which is considered to be more sophisticated than the State modelling, does not indicate any debris flow risk in the area.

Based on the above, in my opinion a reasonable person would accept the landslide risk associated with the proposed works without any particular management measures (i.e. acceptable risk) and the exercise of discretion is recommended.

- 6.8.6 The proposal complies with the performance criterion.
- 6.9 Part E6.7.2P1 Design of Vehicular Accesses
 - 6.9.1 The acceptable solution at clause 6.7.2A1 requires vehicle access points to be designed and constructed to comply with the location, sight distance, geometry and gradient under AS2890.2 2002.
 - 6.9.2 The proposed 2m x 2.5m sight triangles abutting the driveway are not clear of obstructions to visibility.
 - 6.9.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.9.4 The performance criterion at clause E.6.7.2P1 provides as follows:

Design of vehicle access points must be safe, efficient and convenient, having regard to all of the following:

(a) avoidance of conflicts between users including vehicles, cyclists and pedestrians;

(b) avoidance of unreasonable interference with the flow of traffic on

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adjoining roads;

 (c) suitability for the type and volume of traffic likely to be generated by the use or development;
 (d) ease of accessibility and recognition for users.

6.9.5 The standards relating to the design of vehicular accesses is to ensure safe and efficient access for all users, including drivers, passengers, pedestrians and cyclists by locating, designing and constructing vehicle access points safely relative to the road network.

The proposal was referred to Council's Development Engineer who assessed the proposal and concluded that the submitted documents indicated that there were:

- no proposed changes at the road frontage, including fencing;
- no proposed intensification of the existing accesses;
- no proposed intensification and type of users using the existing access; and
- residential use is consistent with the existing use.

On this basis it is considered that the sight lines may be accepted under performance criteria Part E6.7.2P1.

It is also noted that the surrounding properties exhibit similar access provisions.

- 6.9.6 The proposal complies with the performance criterion.
- 6.10 Part E 6.7.3 Vehicle Passing Areas Along An Access
 - 6.10.1 The acceptable solution at clause E6.7.2A1 requires vehicle passing areas to be provided if an access is more than 30m long and meets a road serving more than 6000 vehicles per day.
 - 6.10.2 The proposal includes a dwelling extension and works to an access way, which is in excess of 30m long and meets a road serving more than 6000m per day.
 - 6.10.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.10.4 The performance criterion at clause E6.7.3P1 provides as follows:

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Vehicular passing areas must be provided in sufficient number, dimension and siting so that the access is safe, efficient and convenient, having regard to all of the following:

(a) avoidance of conflicts between users including vehicles, cyclists and pedestrians;

(b) avoidance of unreasonable interference with the flow of traffic on adjoining roads;

(c) suitability for the type and volume of traffic likely to be generated by the use or development;

(d) ease of accessibility and recognition for users.

6.10.5 The objective of the standards relating to vehicular passing areas along an access, in this instance aims to ensure that the design and location of access and parking areas creates a safe environment for users by minimising the potential for conflicts involving vehicles, pedestrians and cyclists.

The proposal was referred to Council's Development Engineer who assessed the proposal and concluded that the submitted documents, enabled the vehicle passing areas to be accepted under E6.7.3P1 of the *Hobart Interim Planning Scheme 2015*.

6.10.6 The proposal complies with the performance criterion.

7. Discussion

7.1 Planning approval is sought for Partial Demotion, Alterations and Extension at 1/816 Sandy Bay Road Sandy Bay and Common Land of Parent Title.

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7.2 The application was advertised and received five representations. The representations raised several concerns particularly the management of the existing visitor accommodation unit at 1/816 Sandy Bay Road and the impact on the surrounding neighbours. As stated above, the subject dwelling was approved as visitor accommodation under PLN-21-203 on 7 May 2021. As the management plan required under condition PLN 18 has not been submitted to Council the use should not have commenced. Council has written to the owner confirming that the management plan must be submitted to Council prior to the use commencing.

Other issues raised in the representations relate to the existing (lack of) sight distance when entering/exiting the driveway rendering it unsafe. The representors also raised the lack of information submitted to Council including the absence of shadow diagrams or retaining walls adjacant to the driveway works. It was also noted that the scale of the cars on the driveway plans indicated smaller vehicles that what was observed using the existing driveway, leading to the increase in onsite carparking.

The representors also stated that they believe that the site is unsuitable for further development and will result in a default motel on the property. As such the representors requested a reassessment of the dwelling, as short term visitor accommodation, due to the increase in floor area, thereby creating a third bedroom.

- 7.3 The proposal has been assessed against the relevant provisions of the planning scheme and is considered to perform well. The concern raised about shadow diagrams is not something which is prompted by the planning scheme, given that all new works fall within the building envelope and it therefore satisfies 12.4.2A3. The concerns about the vehicle movements and access have been considered by the development engineering team and are addressed above. Further detailed designs are required by conditions regarding the retaining structures. Given that this application is not for visitor accommodation, those issues cannot be considered in relation to this application.
- 7.4 The proposal has been assessed by other Council officers, including the Council's Development Engineer, Environmental Development Planner and Stormwater Services Engineer. The officers have raised no objection to the proposal, subject to conditions.
- 7.5 The proposal is recommended for approval.

8. Conclusion

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8.1 The proposed Partial Demotion, Alterations and Extension at 1/816 Sandy Bay Road Sandy Bay and Common Land of Parent Title satisfies the relevant provisions of the *Hobart Interim Planning Scheme 2015*, and as such is recommended for approval.

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9. Recommendations

That: Pursuant to the *Hobart Interim Planning Scheme 2015*, the City Planning Committee, in accordance with the delegations contained in its terms of reference, approve the application for Partial Demotion, Alterations and Extension at 1/816 Sandy Bay Road Sandy Bay and Common Land of Parent Title for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-454 - 1/816 SANDY BAY ROAD SANDY BAY TAS 7005 - Final Planning Documents except where modified below.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice: Under section 23 of the Urban Drainage Act 2013 it is an offence for a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

ENG 2a

Prior to first occupation or commencement of use (whichever occurs first),

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vehicular barriers compliant with the Australian Standard AS/NZS1170.1:2002 must be installed to prevent vehicles running off the edge of an access driveway or parking module (parking spaces, aisles and manoeuvring area) where the drop from the edge of the trafficable area to a lower level is 600mm or greater, and wheel stops (kerb) must be installed for drops between 150mm and 600mm. Barriers must not limit the width of the driveway access or parking and turning areas approved under the permit.

Advice:

- The Council does not consider a slope greater than 1 in 4 to constitute a lower level as described in AS/NZS 2890.1:2004 Section 2.4.5.3. Slopes greater than 1 in 4 will require a vehicular barrier or wheel stop.
- Designers are advised to consult the National Construction Code 2016 to determine if pedestrian handrails or safety barriers compliant with the NCC2016 are also required in the parking module this area may be considered as a path of access to a building.

Reason for condition

To ensure the safety of users of the access driveway and parking module and compliance with the standard.

ENG 3b

The following aspects of the access driveway and parking module (parking spaces and manoeuvring area) require further detailed designs:

1. Extent and depth of excavations abutting Council's highway reservation; and

2. Detailed design of any earth retaining structures abutting Council's highway reservation.

This documentation must be submitted and approved as a condition endorsement, prior to the issuing of any approval under the *Building Act 2016*. The detailed designs must:

1. be prepared and certified by a suitably qualified engineer;

2. be in accordance with the design EAST documentation received by the Council on the 1st December 2021;

3. be in accordance with the Australian Standard AS/NZS2890.1:2004, if possible;

4. where the design deviates from AS/NZS2890.1:2004 the designer must demonstrate that the design will provide a safe and efficient access, and

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enable safe, easy and efficient use; and

5. show dimensions, levels, gradients & transitions, and other details as
Council deem necessary to satisfy the above requirement; and
6. show cross-sections at 2 metre intervals along the length of the driveway abutting the Sandy Bay highway reservation showing the extent of excavations, earth retaining structures, cross fall gradients, existing natural surface level (NSL) and new design levels from the back of footpath for the width of the proposed driveway (including any batter slopes).

The access driveway and parking area must be constructed in accordance with the approved detailed designs prior to first occupation.

Advice:

- This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.
- It is advised that designers consider the detailed design of the access and parking module prior to finalising the Finished Floor Level (FFL) of the parking spaces (especially if located within a garage incorporated into the dwelling), as failure to do so may result in difficulty complying with this condition.

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 3c

The access driveway and parking module (parking spaces, aisle and manoeuvring area) must be constructed in accordance with the design drawings approved by Condition ENG 3b.

Prior to the commencement of use, documentation by a suitably qualified engineer certifying that the access driveway and parking module has been constructed in accordance with the above drawings must be lodged with Council.

Advice:

• Certification may be submitted to Council as part of the Building Act 2016 approval process or via condition endorsement (see general advice on how to

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obtain condition endorsement)

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 4

The access driveway and parking module (car parking spaces, aisles and manoeuvring area) approved by this permit must be constructed to a sealed standard (spray seal, asphalt, concrete, pavers or equivalent Council approved) and surface drained to the Council's stormwater infrastructure prior to the commencement of use.

Reason for condition

To ensure the safety of users of the access driveway and parking module, and that it does not detract from the amenity of users, adjoining occupiers or the environment by preventing dust, mud and sediment transport.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

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Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENG r1

The excavation and earth-retaining structures (i.e. cuttings, retaining walls) and/or footings supporting the highway reservation must not undermine the stability and integrity of the highway reservation and its infrastructure.

Detailed design drawings, structural certificates and associated geotechnical assessments of the excavation and earth-retaining structures supporting the Sandy Bay Road highway reservation must be submitted and approved as a Condition Endorsement, prior to the commencement of work and must:

- 1. Be prepared and certified by a suitable qualified person and experienced engineer;
- 2. Not undermine the stability of the highway reservation;
- 3. Be designed in accordance with AS4678, with a design life in accordance with table 3.1 typical application major public infrastructure works;
- 4. Take into account any additional surcharge loadings as required by relevant Australian Standards;
- 5. Take into account and reference accordingly any Geotechnical findings;
- 6. Detail any mitigation measures required; and
- 7. Detail the design and location of the footing adjacent to Sandy Bay Road highway reservation.

The structure certificated and/or drawings should note accordingly the above.

All work required by this condition must be undertaken in accordance with the approved select design drawing and structural certificates.

Advice: This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that the stability and integrity of the Council's highway reservation is not compromised by the development.

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ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and maintained until all areas of disturbance have been stabilized or re-vegetated.

Advice: For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

CONDITION ENDORSEMENT

If any condition requires that further documents are submitted and approved, you will need to submit the relevant documentation to satisfy the condition via the Condition Endorsement Submission on Council's online services e-planning portal. Detailed instructions can be found here.

A fee of 2% of the value of the works for new public assets (stormwater infrastructure, roads and related assets) will apply for the condition endorsement application.

Once approved, the Council will respond to you via email that the condition has been endorsed (satisfied).

Where building approval is also required, it is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

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BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016*. Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

OCCUPATION OF THE PUBLIC HIGHWAY

You may require a permit for the occupation of the public highway for construction (e.g. placement of skip bin, crane, scissor lift etc). Click here for more information.

DRIVEWAY SURFACING OVER HIGHWAY RESERVATION

If a coloured or textured surface is used for the driveway access within the Highway Reservation, the Council or other service provider will not match this on any reinstatement of the driveway access within the Highway Reservation required in the future.

STRATA AMENDMENT

You will be required to amend the strata plan pursuant to the provisions of the *Strata Titles Act 1998* in order to reflect the completed development works. Click here for more information.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

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9

(Deanne Lang) Development Appraisal Planner

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

luy

(Karen Abey) Manager Development Appraisal

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Date of Report: 18 January 2022

Attachment(s):

Attachment B - CPC Agenda Documents

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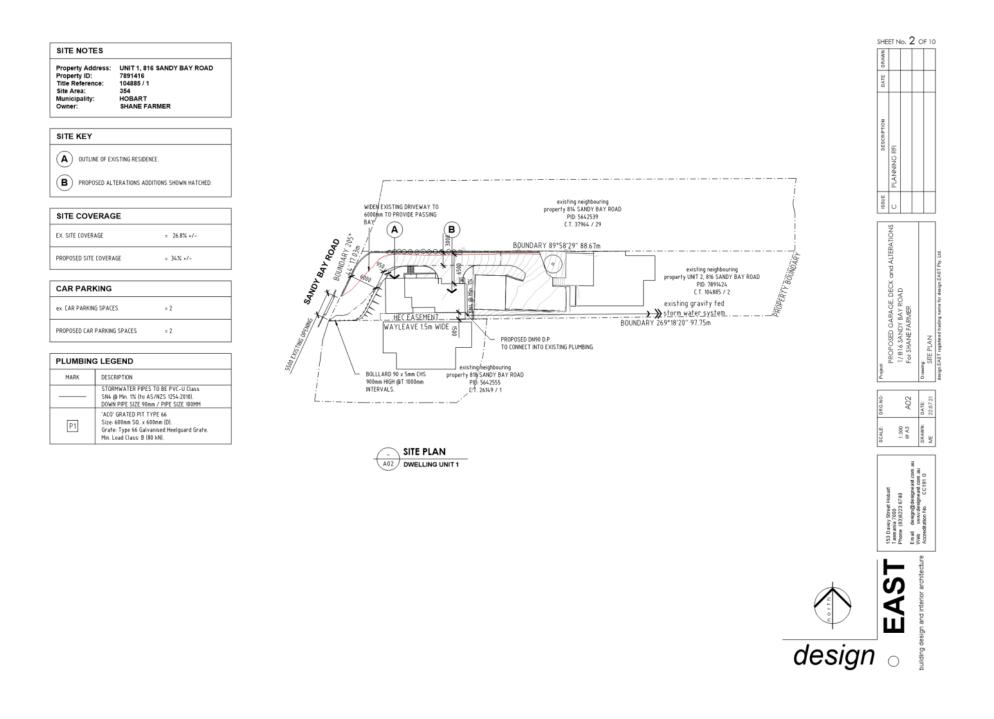
Page 169 ATTACHMENT B

SHEET No. 1 OF 10

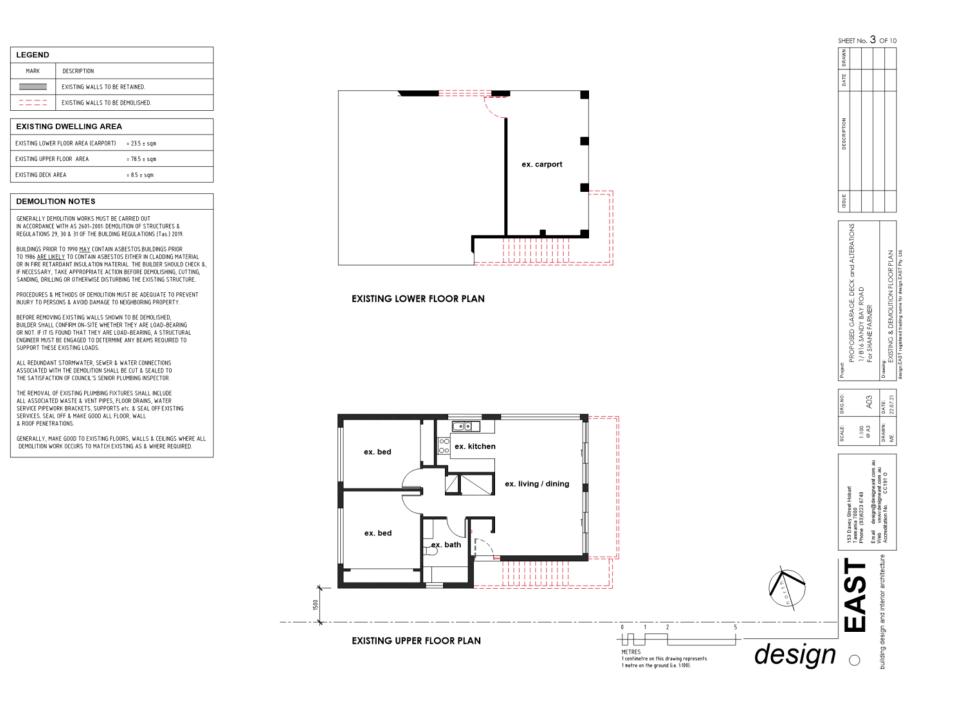
PROPOSED ALTERATIONS & ADDITIONS at UNIT 1 816 SANDY BAY ROAD, 7005 for SHANE FARMER		DE JOB # 5426	GENERAL INFORMATION		
			Accredited Building Designer: Accreditation Number:	Monty East CC 191O	
			Land title reference number:	C.T. 104885 / 1	
ISSUE: DEVELOPMENT APPLICATION REVC 1 Dec 2021			Site area:	354 m²	
DWG. No.	DRAWING	ISSUE		004 11	
5426 - A01	DRAWING INDEX	с			
426 - A02	SITE PLAN	с			
426 - A03	EXISTING & DEMOLITION FLOOR PLANS	с			
6426 - A04	PROPOSED FLOOR PLANS	c			
426 - A05	NORTH ELEVATIONS	c			
426 - A06	EAST ELEVATIONS	c			
5426 - A07	SOUTH ELEVATIONS	c			
5426 - C01	PROPOSED DRIVEWAY FINISHED LEVELS	c			
5426 - C02	DRIVEWAY SECTIONS	c			
5426 - C03	TURNING TEMPLATES	c			



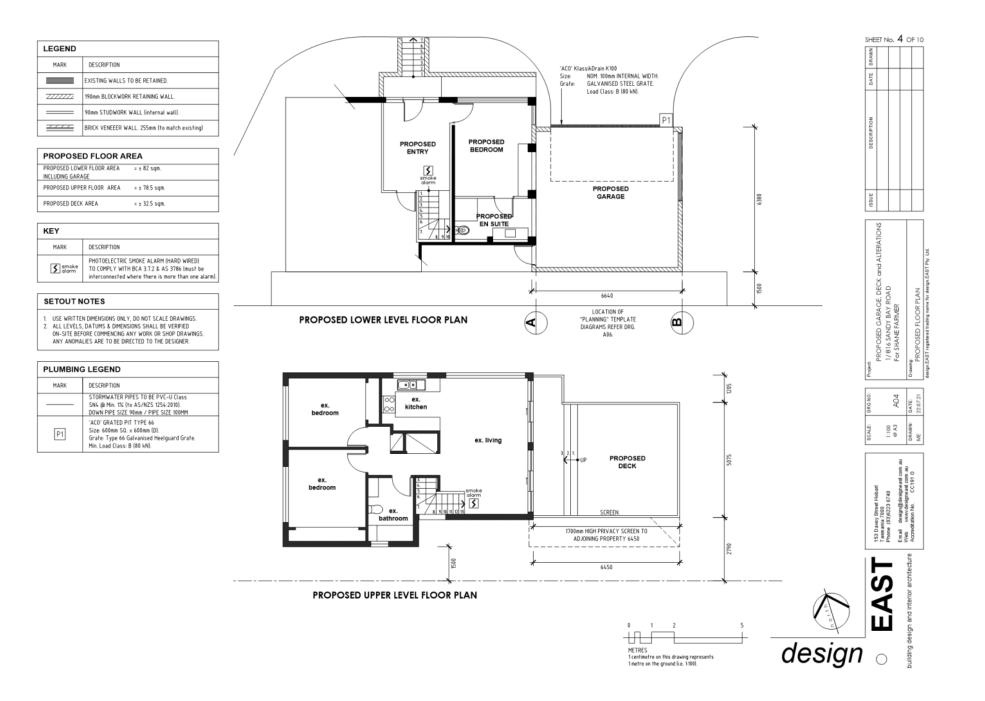
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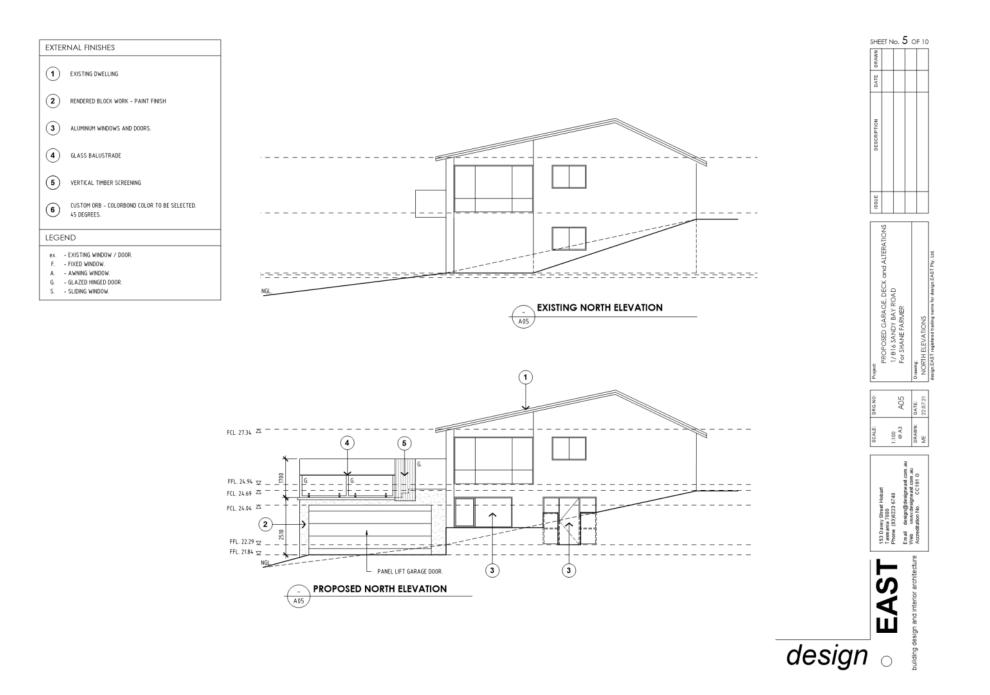
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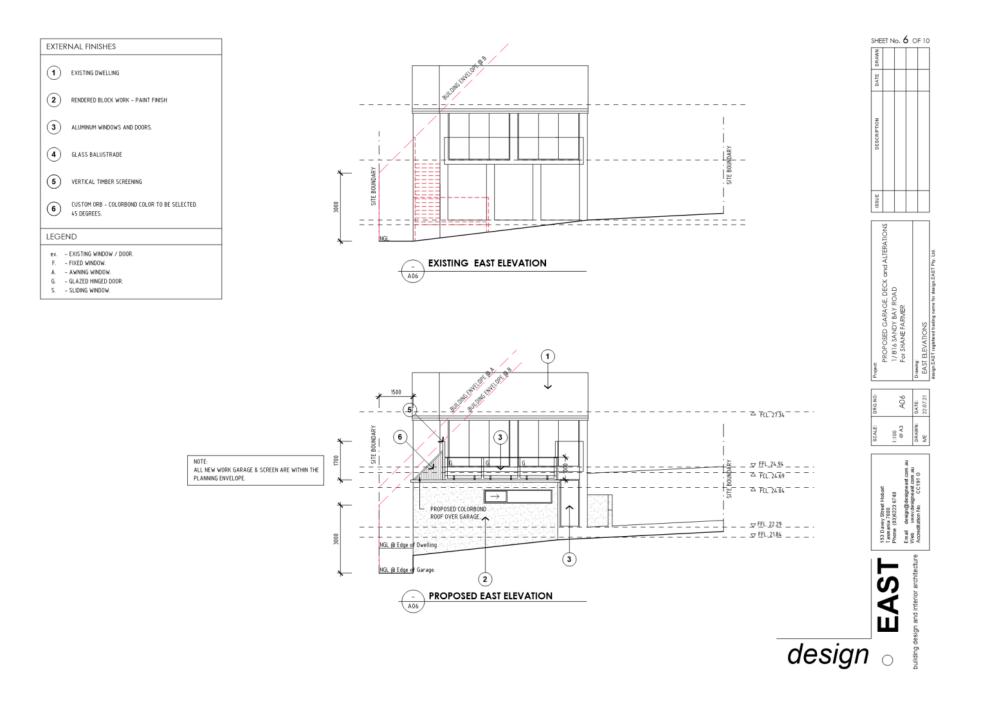
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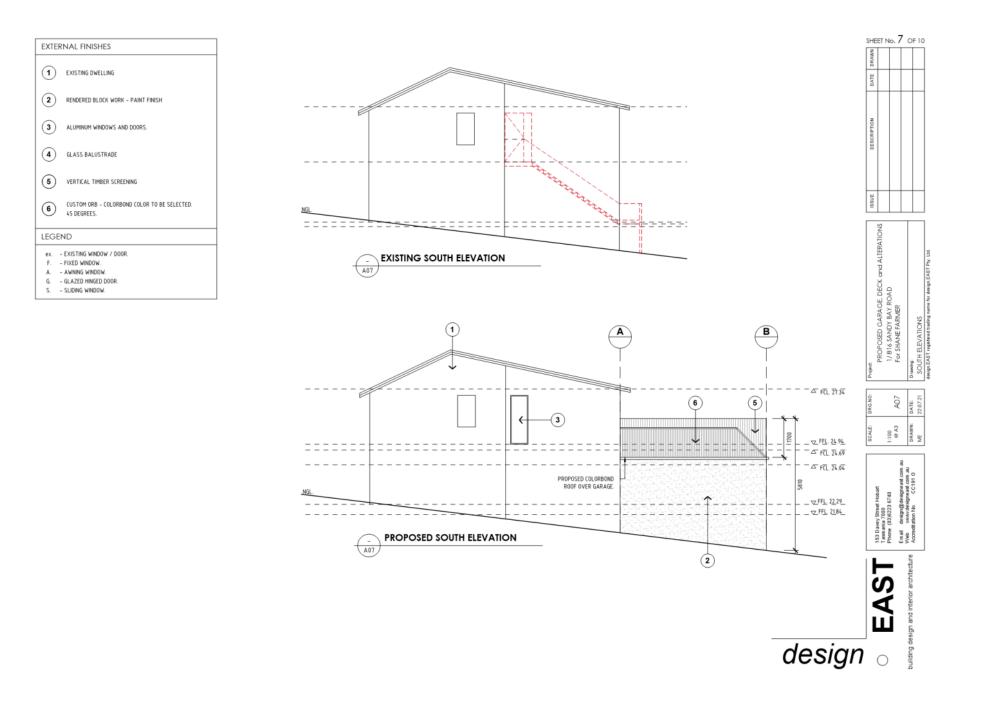


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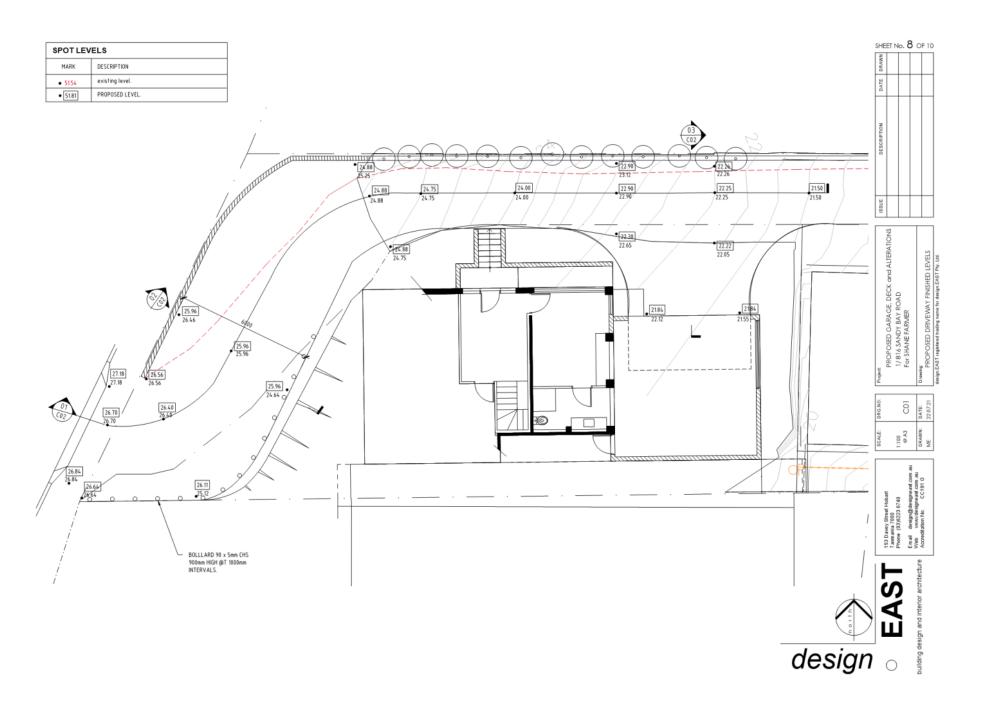


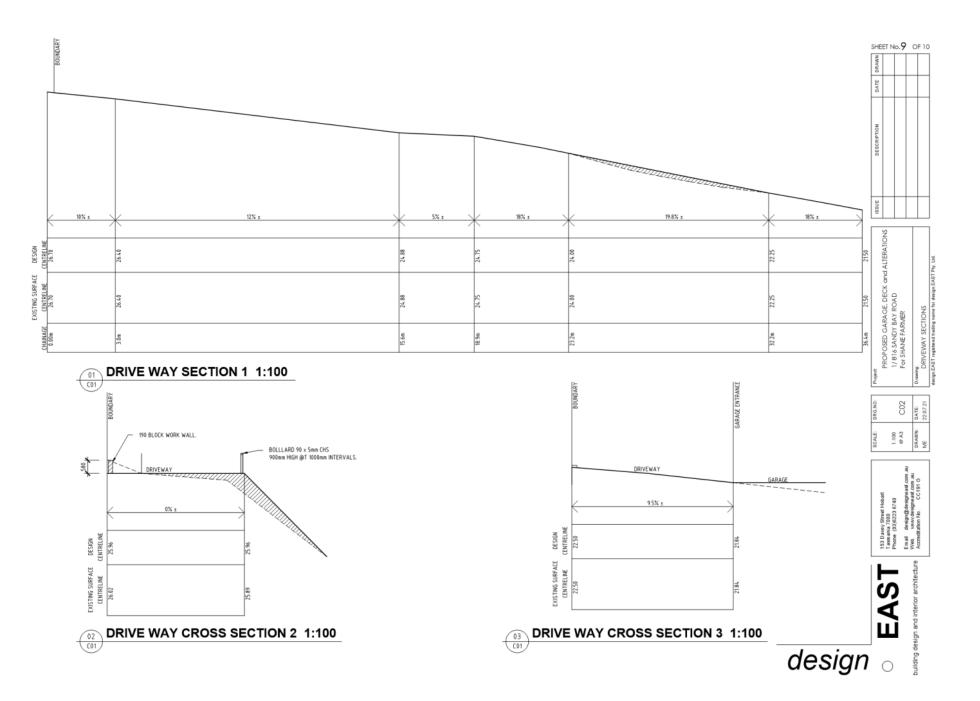
Page 174 ATTACHMENT B



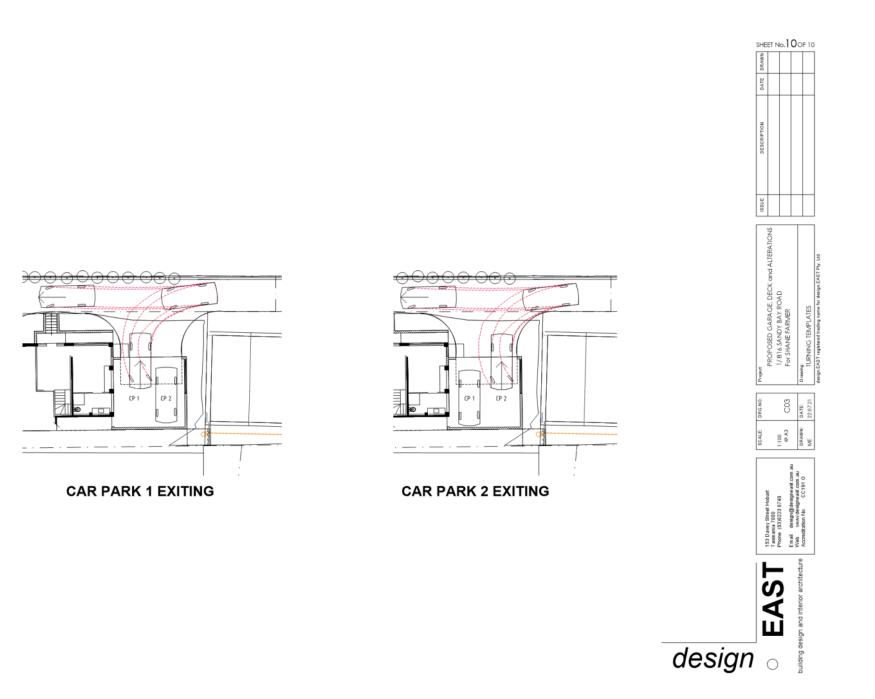


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Planning: #235878

Property

1/816 SANDY BAY ROAD SANDY BAY TAS 7005

People

Applicant *	
DESIGN EAST PTY LTD 03 6223 6740	
meast@designeast.com.au	
Owner	
*	
Shane Farmer	
2/816 Sandy Bay Road	
SANDY BAY TAS 7005 0447517922	
srfguru@gmail.com	
Entered By DESIGN EAST PTY LTD	
03 6223 6740	
meast@designeast.com.au	

Use

Multiple dwellings

Details

Have you obtained pre application advice? • Yes

if YES please provide the pre-application $% \left({{\rm advice number eg}} \right)$ PAE-17-xx

PAE-21-164

Are you applying for permitted visitor accommodation as defined by the Date Government Visitor Accommodation Diandards* Olick on help information button for definition. If you are not the owner of the property you MUBT include signed confirmation from the owner that they are aware of this application.

• .No

is the application for SIGNAGE ONLY? If yes, please enter \$0 in the cost of development, and you must enter the number of signs under Other Details below.

• -No

f this application is related	i to an enforcement action plea	se enter Enforceme	nt Number	_
Detalls				
What is the current approv	ved use of the land / building(s)	7		
Residential				
Please provide a full descr swimming pool and garage	ription of the proposed use or c e)	levelopment (l.e. d	emolition and new dwelling,	
New Bedroom, New Gara	ge and associated works			
Estimated cost of develop	ment			
140000.00				
Existing floor area (m2)	Proposed floor area	(m2) Sit	e area (m2)	
78.50	160.00	35	54	
Carparking on Site				
		N/A		
Fotal parking spaces	Existing parking spaces	Other (no select	tion	
2	1	chosen)		
Other Details				
Does the application inclus	de signage?			
No				
How many signs, please e nvolved in this application				
0				
Tasmania Heritage Ro s this property on the Tas Register?				
Documents				
Required Documents	5			
Title (Folio text and Plan and	d Schedule of Easements)			
816 Sandy Bay Road - TITL Plans (proposed, existing)	E.pdf			
* 816 Sandy Bay Road - Planr	ning Drawings - 2.07.2021.pdf			
	e e construction			





RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME	FOLIO
104885	1
EDITION	DATE OF ISSUE
6	23-Mar-2021

SEARCH DATE : 24-Jun-2021 SEARCH TIME : 09.37 AM

DESCRIPTION OF LAND

City of HOBART Lot 1 on Strata Plan 104885 and a general unit entitlement operating for all purposes of the Strata Scheme being a 1 undivided 1/2 interest Derived from Strata Plan 104885 Derivation : Part of 72a 3r 34ps Gtd to Vernon William Hookey

SCHEDULE 1

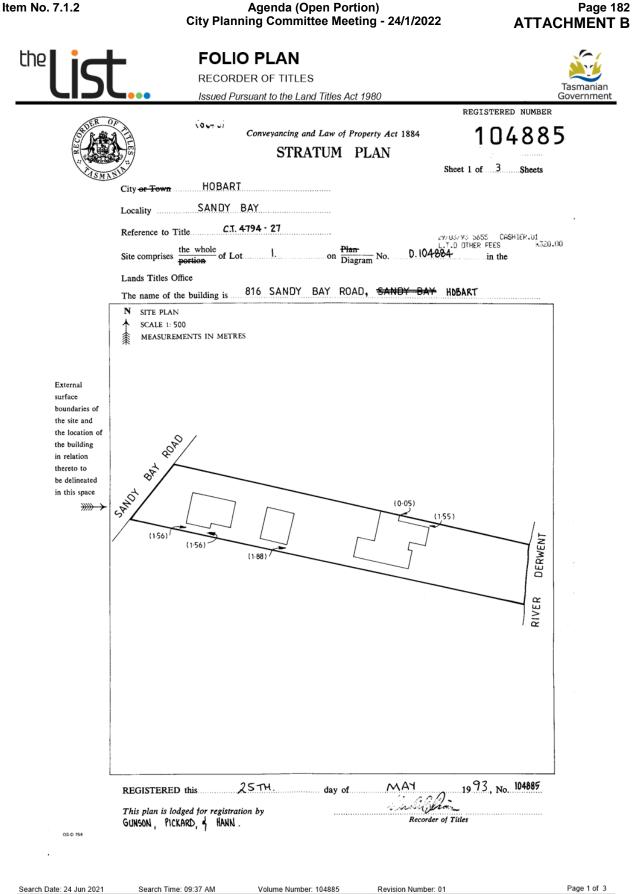
M870479 TRANSFER to SHANE RONALD FARMER Registered 23-Mar-2021 at 12.01 PM

SCHEDULE 2

Reservations and conditions in the Crown Grant if any The registered proprietor holds the lot and unit entitlement subject to any interest noted on common property Folio of the Register volume 104885 folio 0 B658785 BURDENING EASEMENT: Wayleave Easement for the Hydro Electric Commission over the HEC Wayleave Easement on Diagram No 104884 Registered 25-May-1993 at noon E254348 MORTGAGE to First Mortgage Company Home Loans Pty Ltd Registered 23-Mar-2021 at 12.02 PM

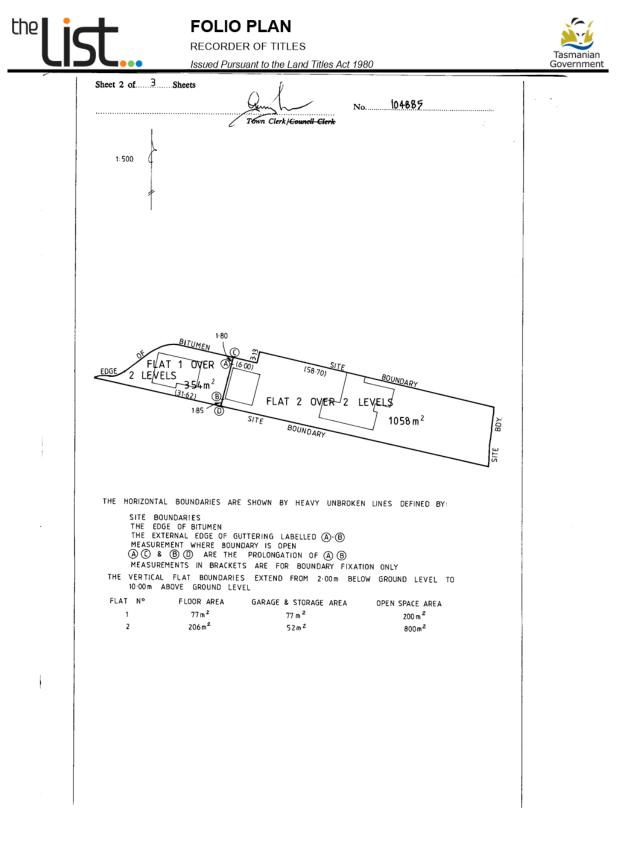
UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations



Department of Primary Industries, Parks, Water and Environment

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 Search Date: 24 Jun 2021
 Search Time: 09:37 AM
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 Department of Primary Industries, Parks, Water and Environment
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Volume Number: 104885 Revision Number: 01

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

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	Sheet 3	of 3 Shee		and Thes Act 1900	Governme
		Ç	high	No. 104885	
	r		own Clerk/ Council-Clerk		
		address for ser iy is:	rvice of notices on the	SURVEYOR'S CERTIFICATE	
				I, CANG BRADIST ROLGROOM	
	81	16 SANDY E SANDY BAY	BAY ROAD,	of HawMH	
		SANDI DAI	, 7005	a surveyor registered under the Land Surveyor's	
				Act 1909, hereby certify that the building erected on the site described and delineated on	
				sheet 1 of this plan is within the external boun-	
		UNIT ENI	ITLEMENTS	daries of the title stated on sheet 1.	
	Flat	Unit Entitlement	FOR OFFICE USE ONLY	Dated this 1 20 day of NOVEADER 1992	
	1	1		(automa	
		1		Registered Surveyor	
	2	//		COUNCIL CLERK'S CERTIFICATE	
•		-		I certify that the subdivision shown in this plan	
1				has been approved by the	
				HOBART CITY Council	
				Dated this day of MARCH1993	
				Quela	
				Town Clerk/Council Clerk	
		•		For Office Use Only	
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 Search Date: 24 Jun 2021
 Search Time: 09:37 AM
 Volume Number: 104885
 Revision Number: 01
 Page 3 of 3

 Department of Primary Industries, Parks, Water and Environment
 www.thelist.tas.gov.au

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RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME 104885	FOLIO 2
EDITION 8	DATE OF ISSUE 27-Sep-2017

SEARCH DATE : 17-Feb-2021 SEARCH TIME : 01.53 PM

DESCRIPTION OF LAND

City of HOBART Lot 2 on Strata Plan 104885 and a general unit entitlement operating for all purposes of the Strata Scheme being a 1 undivided 1/2 interest Derived from Strata Plan 104885 Derivation : Part of 72a 3r 34ps Gtd to Vernon William Hookey

SCHEDULE 1

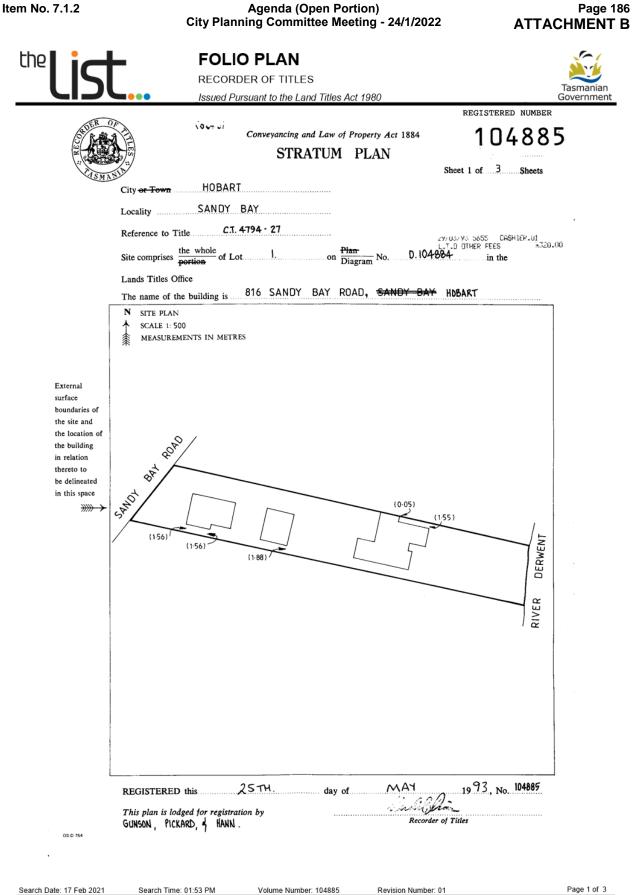
M653687 TRANSFER to SHANE RONALD FARMER Registered 27-Sep-2017 at 12.01 PM

SCHEDULE 2

Reservations and conditions in the Crown Grant if any The registered proprietor holds the lot and unit entitlement subject to any interest noted on common property Folio of the Register volume 104885 folio 0 B658785 BURDENING EASEMENT: Wayleave Easement for the Hydro Electric Commission over the HEC Wayleave Easement on Diagram No 104884 Registered 25-May-1993 at noon E107361 MORTGAGE to First Mortgage Company Home Loans Pty Ltd Registered 27-Sep-2017 at 12.02 PM

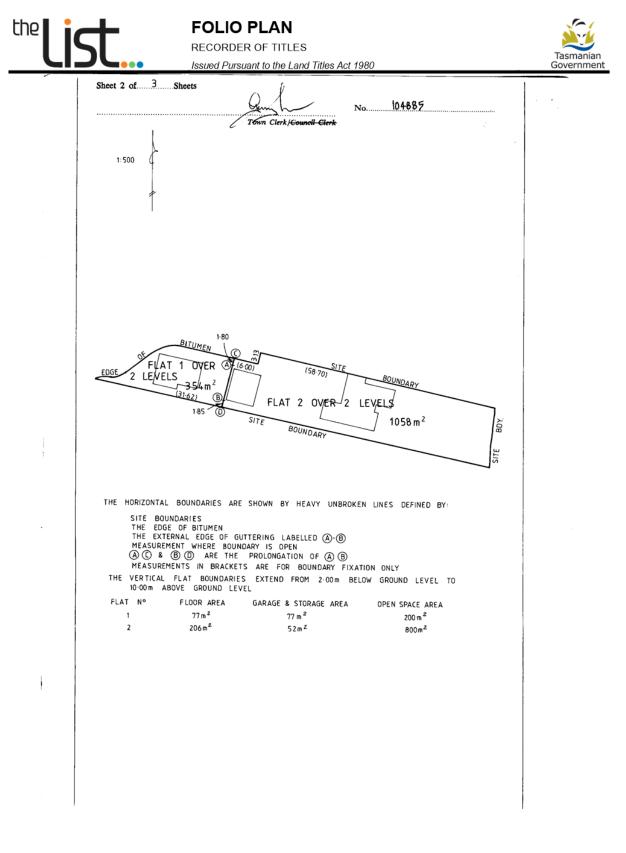
UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations



Department of Primary Industries, Parks, Water and Environment

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 Search Date: 17 Feb 2021
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 Department of Primary Industries, Parks, Water and Environment
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Volume Number: 104885 Revision Number: 01

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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

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	Sheet 3	of 3 Shee	ets (No	
	The		own Clerk/ Council Clerk		
	compan		rvice of notices on the	SURVEYOR'S CERTIFICATE	
	816 SANDY BAY ROAD, SANDY BAY, 7005		7 , 7005	I, OMIC BADDA ROGARON of HOWAHH a surveyor registered under the Land Surveyor's Act 1909, hereby certify that the building erected on the site described and delineated on sheet 1 of this plan is within the external boun-	
			TTLEMENTS	daries of the title stated on sheet 1.	
	Flat 1	Unit Entitlement	For Office Use Only	Dated this 20 day of NULEANDER 1992	
	2	1		Registered Surveyor	
	<i>(</i>			COUNCIL CLERK'S CERTIFICATE	
				I certify that the subdivision shown in this plan	
				has been approved by the	
				HOBART CITY Council	
				Dated this	
				Town Clerk/Council Clerk	
				FOR OFFICE USE ONLY	
,					
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 Search Date: 17 Feb 2021
 Search Time: 01:53 PM
 Volume Number: 104885
 Revision Number: 01
 Page 3 of 3

 Department of Primary Industries, Parks, Water and Environment
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RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME 104885	FOLIO 0
EDITION 2	DATE OF ISSUE 13-Apr-2006

SEARCH DATE : 24-Jun-2021 SEARCH TIME : 09.37 AM

DESCRIPTION OF LAND

City of HOBART The Common Property for Strata Scheme 104885 Derivation : Part of 72a 3r 34ps Gtd to Vernon William Hookey Prior CT 4794/27

SCHEDULE 1

STRATA CORPORATION NUMBER 104885, 816 SANDY BAY ROAD, HOBART

SCHEDULE 2

Reservations and conditions in the Crown Grant if any B658785 BURDENING EASEMENT: Wayleave Easement for the Hydro Electric Commission over the HEC Wayleave Easement on Diagram No 104884 Registered 25-May-1993 at noon

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment

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7.1.3 62-66 CLARE STREET, NEW TOWN - PARTIAL DEMOLITION, ALTERATIONS AND EXTENSION PLN-21-693 - FILE REF: F22/4027

Address:	62-66 Clare Street, New Town
Proposal:	Partial Demolition, Alterations and Extension
Expiry Date:	16 February 2022
Extension of Time:	Not applicable
Author:	Adam Smee

RECOMMENDATION

That pursuant to the *Hobart Interim Planning Scheme 2015*, the Council approve the application for partial demolition, alterations and extension at 62-66 Clare Street, New Town 7008 for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-693 - 62-66 CLARE STREET NEW TOWN TAS 7008 - Final Planning Documents except where modified below.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice:

Under section 23 of the Urban Drainage Act 2013 it is an offence for

a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

SW 9

Prior to occupancy or the commencement of the approved use (whichever occurs first), stormwater discharges from the development must be installed.

A stormwater management report and design must be submitted and approved prior to the issue of any approval under the *Building Act 2016* or the commencement of work on the site (whichever occurs first). The stormwater management report and design must be prepared by a suitably qualified engineer and must:

- 1. Include detailed design and supporting calculations of the detention tank showing:
 - detention tank sizing such that there is no increase in flows from the developed site up to 5% AEP event and no worsening of flooding;
 - 2. the layout, the inlet and outlet (including long section), outlet size, overflow mechanism and invert level;
 - 3. the discharge rates and emptying times; and
 - 4. all assumptions must be clearly stated;
- 2. Include a supporting maintenance plan, which specifies the required maintenance measures to check and ensure the ongoing effective operation of all systems, such as: inspection frequency; cleanout procedures; descriptions and diagrams of how the installed systems operate; details of the life of assets and replacement requirements.

All work required by this condition must be undertaken and maintained in accordance with the approved stormwater management report and design.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and maintained until all areas of disturbance have been stabilized or re-vegetated.

Advice:

For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

HER 18

The Radiata Pine trees must be protected throughout excavation and post construction.

A report must be submitted for approval as a Condition Endorsement prior to the commencement of work. The report must:

- 1. Be prepared by a suitable qualified person; and
- Show all tree protection zones and relevant measures specified under Section 3 Determining the Protection Zones of the Selected Trees, Section 4 Tree Protection Measures and Section 5 Monitoring and Certification of AS 4970-2009 Protection of trees on development sites, around the Radiata Pine.

All work required by this condition must be undertaken in accordance with the approved report.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

OPS 3

The four Pittosporum trees identified for removal are to be removed prior to the commencement of other works.

Replacement trees will be required, two for everyone to be removed, to the satisfaction of the Director City Amenity.

On completion of planting of all trees, the developer must arrange for an installation inspection by the Council. Once all the trees have been planted to the satisfaction of the Council's Director City Amenity, the Council will issue a statement confirming satisfactory planting of all street trees.

All street trees must then be watered and maintained in a healthy

state by the developer for a period of two (2) years from the date of that statement.

Advice:

For further information regarding satisfaction of this condition, and to arrange an Installation Inspection by the Council, please liaise with the Council's Program Leader Arboriculture and Nursery by phoning 6238 2807.

A final plan showing the tree protection measures and the location of replacement plantings is to be submitted before building approval is sought or before works commence, whichever occurs sooner.

Once the plan has been approved, the Council will issue a condition endorsement (see general advice on how to obtain condition endorsement). It is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

Reason for condition

To ensure that the amenity of public open space is maintained and that works are undertaken in accordance with the *City of Hobart Street Tree Strategy 2017* and Australian Standard AS 4970 Protection of trees on development sites.

OPS 5

All trees to be retained in the vicinity of the development site and in particular the closest *Pinus radiata* pine tree, must be protected from damage during works. Canopies, trunks and root protection zones (as defined as the Tree Protection Zone in the *Australian Standard for Protection of trees on development sites* AS4970) are to be protected from damage, or compensation will be payable.

Before works commence, tree protection fencing must be installed around the trees to be retained. No vehicular access, excavation, placement of fill, storage of materials or soil disturbance is to occur within the fencing. There must be no pruning, lopping or damage to the tree (including its trunk and roots). Details of tree protection measures must be clearly notated on any plans submitted to the Council under the *Building Act 2016*.

A final plan showing the tree protection measures and the location of replacement plantings must be submitted before building approval is sought or before works commence, whichever occurs sooner.

Advice:

Once the plan has been approved the Council will issue a condition endorsement (see general advice on how to obtain condition endorsement). It is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

Reason for condition

To ensure that the amenity of public open space is maintained and that works are undertaken in accordance with the City of Hobart Street Tree Strategy 2017 and Australian Standard AS 4970 Protection of trees on development sites and that to ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

CONDITION ENDORSEMENT

If any condition requires that further documents are submitted and approved, you will need to submit the relevant documentation to satisfy the condition via the Condition Endorsement Submission on Council's online services e-planning portal. Detailed instructions can be found here.

A fee of 2% of the value of the works for new public assets (stormwater infrastructure, roads and related assets) will apply for the condition endorsement application.

Once approved, the Council will respond to you via email that the condition has been endorsed (satisfied).

Where building approval is also required, it is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016.* Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

NOISE REGULATIONS

Click here for information with respect to noise nuisances in residential areas.

WASTE DISPOSAL

It is recommended that the developer liaise with the Council's Cleansing and Solid Waste Unit regarding reducing, reusing and recycling materials associated with demolition on the site to minimise solid waste being directed to landfill.

Further information regarding waste disposal can also be found on the Council's website.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

Attachment A:	PLN-21-693 - 62-66 CLARE STREET NEW TOWN TAS 7008 Planning Committee or Delegated Report I
Attachment B:	PLN-21-693 - 62-66 CLARE STREET NEW TOWN TAS 7008 - CPC Agenda Documents I 🛱
Attachment C:	PLN-21-693 - 62-66 CLARE STREET NEW TOWN TAS 7008 - Planning Referral Officer Open Space and Recreation Report I 🖀
Attachment D:	PLN-21-693 - 62-66 CLARE STREET NEW TOWN TAS 7008 - Planning Referral Officer Cultural Heritage Report - ATTACHMENT C I 🖫



APPLICATION UNDER HOBART INTERIM PLANNING SCHEME 2015

City of HOBART	
Type of Report:	Committee
Council:	24 January 2022
Expiry Date:	16 February 2022
Application No:	PLN-21-693
Address:	62 - 66 CLARE STREET , NEW TOWN
Applicant:	(Hobart City Council) 16 Elizabeth Street
Proposal:	Partial Demolition, Alterations, and Extension
Representations:	Five (5)
Performance criteria:	Recreation Zone Standards, Historic Heritage Code

1. Executive Summary

- Planning approval is sought for Partial Demolition, Alterations and Extension at 62-66 Clare Street, New Town.
- 1.2 More specifically the proposal includes:
 - Demolition of the public toilet/grounds keepers building on the site,
 - Alterations to the existing changeroom building on the site, including the
 provision of new partitions within the toilets and removing a section of external
 wall to allow for the extension proposed at the south-eastern corner of the
 building. The existing scorers room at the centre of the northern side of the
 building would be incorporated into a new expanded kiosk.
 - Construction of extensions on the western, south-eastern, and eastern sides of the change room building. The extension on the western side would include expanded referees facilities. The extension on the south-eastern, and eastern sides would include two additional changerooms with ablution facilities, new public toilets, and a grounds keepers room.
- 1.3 The proposal relies on performance criteria to satisfy the following standards and codes:
 - 1.3.1 Recreation Zone Standards Passive Surveillance
 - 1.3.2 Historic Heritage Code Heritage Place

Page: 1 of 24

- 1.4 Four (4) representations regarding the proposal were received within the statutory advertising period between 29 November and 13 December 2021. One of the representations received was in support of the proposal while the remaining three representations were opposed. One (1) further representation against the development was received outside the advertising period, and this has been accepted as a representation.
- 1.5 The proposal is recommended for approval subject to conditions.
- 1.6 The final decision is delegated to the Council because the site is owned by the City of Hobart, and because four (4) representations have been received against the proposal.

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2. Site Detail

- 2.1 The site is a Council owned recreational asset known as Clare Street Oval. The property has frontage to Clare Street on its north-eastern boundary, Harding Street on its north-western boundary, and Douglas Street on its southern boundary. Vehicular access to the site is via an entrance off Bedford Street on its eastern boundary. The majority of the area of the property is taken up by oval shaped playing surface but it also accommodates cricket nets and a storage shed to the west of the oval close to its frontage with Harding Street. A playground occupies the western corner of the property. The buildings that are the subject of the current application are within the south-eastern corner of the site.
- 2.2 The site is listed as a heritage place in Table E13.1 of the Planning Scheme's Historic Heritage Code.
- 2.3 The site is generally surrounded by established residential use and development, although Sacred Heart College is to the north, on the opposite side of Clare Street.



Figure 1: aerial view of site (outlined in blue) and surrounding area.

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Figure 2: the toilets to the left and the changerooms and kiosk to the right.

Page: 4 of 24



Figure 3: the toilet block and trees near the boundary with Douglas Street.

Page: 5 of 24



Figure 4: the changerooms and kiosk

Page: 6 of 24



Figure 5: the scoreboard

3. Proposal

Planning approval is sought for Partial Demolition, Alterations and Extension at 62 66 Clare Street, New Town.

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- 3.2 More specifically the proposal includes:
 - Demolition of the public toilet/grounds keepers building on the site,
 - Alterations to the existing changeroom building on the site, including the provision of new partitions within the toilets and removing a section of external wall to allow for the extension proposed at the south-eastern corner of the building. The existing scorers room at the centre of the northern side of the building would be incorporated into a new expanded kiosk.
 - Construction of extensions on the western, south-eastern, and eastern sides of the change room building. The extension on the western side would include expanded referees facilities. The extension on the south-eastern, and eastern sides would include two additional changerooms with ablution facilities, new public toilets, and a grounds keepers room.

4. Background

- 4.1 Council issued a Planning Permit for a storage shed adjacent to the cricket nets on the site in November 2014 (PLN-14-01236-01).
- 4.2 The planning officer undertook a site visit on 11 January 2022.

5. Concerns raised by representors

5.1 Four (4) representations regarding the proposal were received within the statutory advertising period. One of the representations received was in support of the proposal while the remaining three representations were opposed. The representation in support of the proposal stated that:

"This development has our full support. It's good to see that, when finished, the soccer and cricket clubs will have up-to-date modern facilities".

One (1) representation was received outside the advertising period, and this representation has been accepted.

5.2 The following table outlines the concerns raised in the representations received. Those concerns which relate to a discretion invoked by the proposal are addressed in Section 6 of this report.

Page: 8 of 24

"There has been no consultation with residents in Douglas Street most effected by the proposed changes to the Amenities particularly as to : - dramatic changes to the South Elevation involving privacy and aesthetics . reduced car parking spaces on game days. - the new amenities involves removal of 2 Maple trees planted by Richard Weston (former HCC Supervisor) specifically to act as a barrier to unsightly Toilets and Original South Elevation . amenities upgrade will increase noise and lighting pollution to residents during winter training nights and play days. effect and sighting of tank installation and scrubery unknown". 1. Inappropriate development in its current location. More than doubling the change room capacity creating visual & noise & parking issues for residents. 2. New building footprint reduces the amount of parking area currently available as stated on application (the current carpark / Douglas St and Bedford St already is choked on game day & training days/evenings.) 3. Change room windows overlook residential homes, additional noise, and lighting issues. 4. No additional parking allocated or traffic management for increased capacity - players and spectators. 5. New Footprint encroaches too close to boundary and open space to Douglas St homes. Raised roof to public toilet blocks outlook from Douglas St homes and is not a necessity. 7. The removal two Maple trees planted by council either side of the caged water main facing Douglas St.(not noted on plan) 8. Lack of appropriate fence/boundary screening to Douglas St residents. Lack of any consultation with residents preplanning". 'from our perspective, it [the proposal] would definitely not enhance our experience but diminish it. We would be faced with a row of shower and toilet cubicle windows frowning down on us form a much shorter distance than is the case with the current building". "It seems that the planners have thought much about the front of the building and not considered the view from the back. There is nothing friendly about a row of toilet/shower cubicle windows very close to the

road staring at you".

Page: 9 of 24

"when sporting events occur on weekends, our street, quite narrow, is lined on both sides with cars so that often it is quite a delicate operation to get out of your own yard and this congestion continues into Bedford Street. How would this increase in traffic be managed?".

"Would there be extra lighting at night? Would the increased interest and facilities increase noise to a degree that is unacceptable?

Could the whole thing be moved a little closer to the oval?".

"On the whole, with this plan, the streetscape would be diminished because of the construction's proximity to the fence and road, and the loss of greenery. And our experience would be diminished on a daily basis".

Concern about tree removal on the site.

6. Assessment

- 6.1 The Hobart Interim Planning Scheme 2015 is a performance based planning scheme. To meet an applicable standard, a proposal must demonstrate compliance with either an acceptable solution or a performance criterion. Where a proposal complies with a standard by relying on one or more performance criteria, the Council may approve or refuse the proposal on that basis. The ability to approve or refuse the proposal relates only to the performance criteria relied on.
- 6.2 The site is located within the Recreation Zone of the *Hobart Interim Planning Scheme 2015.*
- 6.3 The existing use is sports and recreation which is a permitted use in the above zone. The proposed development would be associated with the existing use.
- 6.4 The proposal has been assessed against:
 - 6.4.1 18.0 Recreation Zone
 - 6.4.2 E6.0 Parking and Access Code
 - 6.4.3 E7.0 Stormwater Management Code
 - 6.4.4 E13.0 Historic Heritage Code

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- 6.5 The proposal relies on the following performance criteria to comply with the applicable standards:
 - 6.5.1 18.0 Recreation Zone:
 - 18.4.4 Passive Surveillance P1
 - 6.5.2 E13.0 Historic Heritage Code:
 - E13.7.1 Demolition, E13.7.2 Buildings and Works other than Demolition P1, P2, P3, and P4.
- 6.6 The relevant performance criteria are assessed below.
- 6.7 Passive Surveillance Part D 18.4.4 P1
 - 6.7.1 The acceptable solution at clause 18.4.4 A1 requires an alteration to an existing facade to provide windows and door openings at ground level which amount to no less than 40% of the surface area of the ground level facade.
 - 6.7.2 The proposal includes alterations to an existing facade that would not provide windows and door openings at ground level which would amount to at least 40% of the surface area of the ground level facade.
 - 6.7.3 The proposal does not comply with the acceptable solution and therefore relies upon assessment against the below performance criterion.
 - 6.7.4 The performance criterion at clause 18.4.4 P1 provides as follows:

Buildings design must provide for passive surveillance of public spaces by satisfying all of the following:

(a) provide the main entrance or entrances to a building so that they are clearly visible from nearby buildings and public spaces;
(b) locate windows to adequately overlook the street and adjoining public spaces;

(c) incorporate shop front windows and doors for ground floor shops and offices, so that pedestrians can see into the building and vice versa;
(d) locate external lighting to illuminate any entrapment spaces around the building site;

(e) provide external lighting to illuminate car parking areas and pathways;

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 (f) design and locate public access to provide high visibility for users and provide clear sight lines between the entrance and adjacent properties and public spaces;
 (a) provide for eight lines to other buildings and public encode

(g) provide for sight lines to other buildings and public spaces.

- 6.7.5 The various entrances to the building would continue to be visible from nearby public spaces such as the existing car park and the playing surface on the site. The proposed extension would include several windows which would overlook Douglas Street, including a row of highlight windows on the proposed southern elevation. Given the nature of the proposed building, it is not considered appropriate for it to incorporate shop front windows or doors. No additional external lighting is considered necessary as the facility is predominantly used in daylight hours and the proposal would not crease entrapment spaces. The proposal would maintained sight lines between the building and the adjacent public spaces.
- 6.7.6 The proposal complies with the above performance criterion.
- 6.8 Historic Heritage Code Part E 13.7.1 P1
 - 6.8.1 There is no acceptable solution for clause E13.7.1 which applies where demolition is proposed on a site that is listed as a heritage place.
 - 6.8.2 The proposal includes demolition and the site is listed as a heritage place in Table E13.1 of the Historic Heritage Code.
 - 6.8.3 As there is no acceptable solution for the above clause the proposal therefore relies upon assessment against the below performance criterion.
 - 6.8.4 The performance criterion at clause E13.7.1 provides as follows:

Demolition must not result in the loss of significant fabric, form, items, outbuildings or landscape elements that contribute to the historic cultural heritage significance of the place unless all of the following are satisfied;

(a) there are, environmental, social, economic or safety reasons of greater value to the community than the historic cultural heritage values of the place;

(b) there are no prudent and feasible alternatives;

(c) important structural or façade elements that can feasibly be retained

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and reused in a new structure, are to be retained;(d) significant fabric is documented before demolition.

- 6.8.5 The Council's Cultural Heritage Officer has advised that the proposed demolition includes removal of the public toilet/grounds keepers building and part of the external wall of the change room building. Neither building is considered to have cultural heritage significance as both are understood to date from the 1980s. Therefore, the proposed demolition would not result in the loss of significant fabric that contributes to the historic cultural heritage significance of the place.
- 6.8.6 The proposal complies with the above performance criterion.
- 6.9 Historic Heritage Code Part E13.7.2 P1, P2, P3, and P4
 - 6.9.1 There are no applicable acceptable solutions for clause E13.7.2 which applies where buildings and works other than demolition are proposed on a heritage place.
 - 6.9.2 The proposal includes buildings and works other than demolition and the site is listed as a heritage place.
 - 6.9.3 As there are no applicable acceptable solutions for the above clause the proposal therefore relies upon assessment against the below performance criteria.
 - 6.9.4 The relevant performance criteria at clause E13.7.2 provide as follows:

P1

Development must not result in any of the following:

(a) loss of historic cultural heritage significance to the place through incompatible design, including in height, scale, bulk, form, fenestration, siting, materials, colours and finishes;

(b) substantial diminution of the historic cultural heritage significance of the place through loss of significant streetscape elements including plants, trees, fences, walls, paths, outbuildings and other items that contribute to the significance of the place.

P2

Development must be designed to be subservient and complementary

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to the place through characteristics including:

(a) scale and bulk, materials, built form and fenestration;

(b) setback from frontage;

(c) siting with respect to buildings, structures and listed elements;

(d) using less dominant materials and colours.

P3

Materials, built form and fenestration must respond to the dominant heritage characteristics of the place, but any new fabric should be readily identifiable as such.

Ρ4

Extensions to existing buildings must not detract from the historic cultural heritage significance of the place.

6.9.5 Council's Cultural Heritage Officer has assessed the proposal against the above performance criteria and provided the following comments:

The existing changing room facilities are considered to be relatively small and clearly read in form and materials as a dating from the mid 1980's. As such, whilst they adopt the form of a traditional sporting pavilion, architecturally they provide little to the cultural significance of the place other than clearly reflecting the principal use of the oval.

The proposed extensions would essentially retain the existing form of the pavilion, retain the building as a single storey structure whilst introducing some interesting additional architectural forms considered to compliment the original building. It is also noted that the new elements would be partially clad in battens of natural finish gum and bricks, adding much needed interest to the pallet of finish materials. As such, it is considered that the proposal would not lead to a loss of cultural significance through incompatible design, materials and finishes.

Importantly, the additional form and scale of the building would still remain in keeping with the sporting facilities of the Oval, retain the sense of openness associated with such a facility, and seek to retain the same level of screening from the road as the existing building and toilet block. Most importantly of all, the proposal would have no impact upon the health of the identified Radiata pines. As such, it is considered that the proposal would not lead to a substantial diminution of the historic cultural heritage

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significance of the place through loss of significant streetscape elements including plants and trees. It is noted that works will be undertaken relatively close to the root system of one such pine. However a formal condition requiring that the tree be protected during construction and materials are stored within the root bowl area have been attached by the Council Arborist.

It is therefore considered that the proposal would not detract from the characteristics or setting of this Heritage Listed place and would thus comply with Clauses E.13.7.2 P1, P2, P3 & P4 of the HIPS.

6.9.6 The proposal complies with the above performance criteria.

7. Discussion

- 7.1 Planning approval is sought for Partial Demolition, Alterations and Extension at 62-66 Clare Street, New Town.
- 7.2 The application was advertised and received five (5) representations. The representations raised concerns including privacy, aesthetics, removal of trees, parking, and increase in noise and light pollution.
- 7.3 The proposal has been assessed against the relevant provisions of the planning scheme and is considered to perform well. The Senior Development Engineer was consulted regarding the loss of parking spaces. The oval is situated between Clare, Harding and Douglas Street all of which, in his view, would be able to absorb the deficiency in car parking as a result of the addition to the building. The overall small loss of car parking is not considered to increase any detriment to surrounding properties.
- 7.4 The proposal has been assessed by other Council officers, including the Council's Cultural Heritage Officer, Park Planner and Stormwater Services Engineer. The officers have raised no objection to the proposal, subject to conditions.
- 7.5 The proposal is recommended for approval.

8. Conclusion

8.1 The proposed Partial Demolition, Alterations and Extension at 62-66 Clare Street, New Town satisfies the relevant provisions of the *Hobart Interim Planning Scheme 2015*, and as such is recommended for approval.

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9. Recommendations

That: Pursuant to the *Hobart Interim Planning Scheme 2015*, the Council approve the application for Partial Demolition, Alterations and Extension at 62-66 Clare Street, New Town for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-693 - 62-66 CLARE STREET NEW TOWN TAS 7008 - Final Planning Documents except where modified below.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice: Under section 23 of the Urban Drainage Act 2013 it is an offence for a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

SW 9

Prior to occupancy or the commencement of the approved use (whichever occurs first), stormwater stormwater discharges from the development must be installed.

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A stormwater management report and design must be submitted and approved prior to the issue of any approval under the *Building Act 2016* or the commencement of work on the site (whichever occurs first). The stormwater management report and design must be prepared by a suitably qualified engineer and must:

- 1. Include detailed design and supporting calculations of the detention tank showing:
 - detention tank sizing such that there is no increase in flows from the developed site up to 5% AEP event and no worsening of flooding;
 - 2. the layout, the inlet and outlet (including long section), outlet size, overflow mechanism and invert level;
 - 3. the discharge rates and emptying times; and
 - 4. all assumptions must be clearly stated;
- 2. Include a supporting maintenance plan, which specifies the required maintenance measures to check and ensure the ongoing effective operation of all systems, such as: inspection frequency; cleanout procedures; descriptions and diagrams of how the installed systems operate; details of the life of assets and replacement requirements.

All work required by this condition must be undertaken and maintained in accordance with the approved stormwater management report and design.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway

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crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and maintained until all areas of disturbance have been stabilized or re-vegetated.

Advice: For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

HER 18

The Radiata Pine trees must be protected throughout excavation and post construction.

A report must be submitted for approval as a Condition Endorsement prior to the commencement of work. The report must:

- 1. Be prepared by a suitable qualified person; and
- Show all tree protection zones and relevant measures specified under Section 3 Determining the Protection Zones of the Selected Trees, Section 4 Tree Protection Measures and Section 5 Monitoring and Certification of AS4970-2009 Protection of trees on development sites, around the Radiata Pine.

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All work required by this condition must be undertaken in accordance with the approved report.

Advice: This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

OPS 3

The four Pittosporum trees identified for removal are to be removed prior to the commencement of other works.

Replacement trees will be required, two for every one to be removed, to the satisfaction of the Director City Amenity.

On completion of planting of all trees, the developer must arrange for an installation inspection by the Council. Once all the trees have been planted to the satisfaction of the Council's Director City Amenity, the Council will issue a statement confirming satisfactory planting of all street trees.

All street trees must then be watered and maintained in a healthy state by the developer for a period of two (2) years from the date of that statement.

Advice: For further information regarding satisfaction of this condition, and to arrange an Installation Inspection by the Council, please liaise with the Council's Program Leader Arboriculture and Nursery by phoning 6238 2807.

A final plan showing the tree protection measures and the location of replacement plantings is to be submitted before building approval is sought or before works commence, whichever occurs sooner.

Once the plan has been approved, the Council will issue a condition endorsement (see general advice on how to obtain condition endorsement). It is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

Reason for condition

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To ensure that the amenity of public open space is maintained and that works are undertaken in accordance with the City of Hobart Street Tree Strategy 2017 and Australian Standard AS 4970 Protection of trees on development sites.

OPS 5

All trees to be retained in the vicinity of the development site and in particular the closest *Pinus radiata* pine tree, must be protected from damage during works. Canopies, trunks and root protection zones (as defined as the Tree Protection Zone in the *Australian Standard for Protection of trees on development sites* AS4970) are to be protected from damage, or compensation will be payable.

Before works commence, tree protection fencing must be installed around the trees to be retained. No vehicular access, excavation, placement of fill, storage of materials or soil disturbance is to occur within the fencing. There must be no pruning, lopping or damage to the tree (including its trunk and roots). Details of tree protection measures must be clearly notated on any plans submitted to the Council under the *Building Act 2016*.

A final plan showing the tree protection measures and the location of replacement plantings must be submitted before building approval is sought or before works commence, whichever occurs sooner.

Advice: Once the plan has been approved the Council will issue a condition endorsement (see general advice on how to obtain condition endorsement). It is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

Reason for condition

To ensure that the amenity of public open space is maintained and that works are undertaken in accordance with the City of Hobart Street Tree Strategy 2017 and Australian Standard AS 4970 Protection of trees on development sites and that to ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not

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exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

CONDITION ENDORSEMENT

If any condition requires that further documents are submitted and approved, you will need to submit the relevant documentation to satisfy the condition via the Condition Endorsement Submission on Council's online services e-planning portal. Detailed instructions can be found here.

A fee of 2% of the value of the works for new public assets (stormwater infrastructure, roads and related assets) will apply for the condition endorsement application.

Once approved, the Council will respond to you via email that the condition has been endorsed (satisfied).

Where building approval is also required, it is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016*. Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

NOISE REGULATIONS

Click here for information with respect to noise nuisances in residential areas.

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WASTE DISPOSAL

It is recommended that the developer liaise with the Council's Cleansing and Solid Waste Unit regarding reducing, reusing and recycling materials associated with demolition on the site to minimise solid waste being directed to landfill.

Further information regarding waste disposal can also be found on the Council's website.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

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Adam Fund

(Adam Smee) Development Appraisal Planner

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Kluy

(Karen Abey) Manager Development Appraisal

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Date of Report: Date Missing

Attachment(s):

Attachment B - CPC Agenda Documents

Attachment C - Planning Referral Officer Report

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0	PLN-21-693	- 62 - 66	CLARE	STREET

Application Information

Application Details	PLN-21-693 Partial Demolition, Alterations, and Extension 🌶
	Submitted on: 14/10/2021
	Accepted as Valid on: 14/10/2021
	Target Time Frame: 42 Days.
	Elapsed Time: 41 Days (Stopped: 41 Days) = 0 Days Expiry date: 05/01/2022
	Officer: Adam Smee

Have you obtained pre application advice?

Θ No

If YES please provide the pre application advice number eg PAE-17-xx

Are you applying for permitted visitor accommodation as defined by the State Government Visitor Accommodation Standards? Click on help information button for definition. If you are not the owner of the property you MUST include signed confirmation from the owner that they are aware of this application. *

Θ No

Is the application for SIGNAGE ONLY? If yes, please enter \$0 in the cost of development, and you must enter the number of signs under Other Details below. *

😑 No

If this application is related to an enforcement action please enter Enforcement Number

Details

What is the current approved use of the land / building(s)? *

Sports Facilities & public toilets

Please provide a full description of the proposed use or development (i.e. demolition and new dwelling, swimming pool and garage) *

Partial demolition & additions to existing sports facilities & public toilets

Estimated cost of development *

990000.00

Existing floor area (m2)	Proposed floor area (m2)	Site area (m2)	
157.00	199.50	20325	

Carparking on Site

Total parking spaces	Existing parking spaces	Ν/Α
30	30	Other (no selection chosen)
Other Details		

Item No. 7.1.3

Pa	ge	22	23
ATTACHME	N	Т	В

How many signs, please enter 0 if there are none involved in this application? * 	Does the application include signage? *		⊙ No	
		ed in		
	0			



RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME	FOLIO
157662	1000
EDITION	DATE OF ISSUE
3	20-May-2010

SEARCH DATE : 16-Sep-2021 SEARCH TIME : 01.59 PM

DESCRIPTION OF LAND

City of HOBART Lot 1000 on Plan 157662 (Section 27A of the Land Titles Act.) Derivation : Whole of Lot 1000 on Plan 157662 Gtd. to The Crown

SCHEDULE 1

C947383 TRANSFER to HOBART CITY COUNCIL Registered 20-May-2010 at 12.01 PM

SCHEDULE 2

C946593	Land is limited in depth to 15 metres, excludes
	minerals and is subject to reservations relating to
	drains sewers and waterways in favour of the Crown
C947383	FENCING PROVISION in Transfer

C947383 REVERSIONARY CONDITIONS set forth in Transfer

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

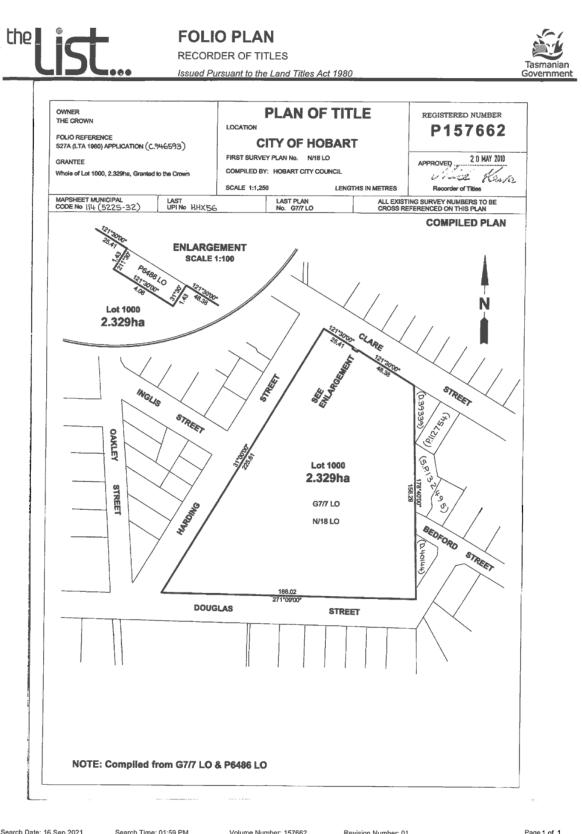
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Department of Primary Industries, Parks, Water and Environment

www.thelist.tas.gov.au

Item No. 7.1.3

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

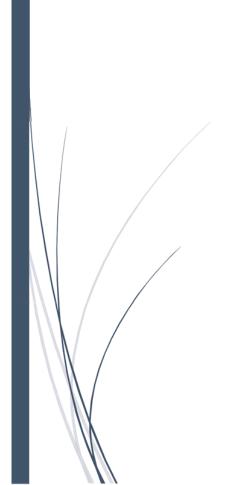


 Search Date: 16 Sep 2021
 Search Time: 01:59 PM
 Volume Number: 157662
 Revision Number: 01
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 Department of Primary Industries, Parks, Water and Environment
 www.thelist.tas.gov.au

11/15/2021

STORMWATER REPORT 62-66 clare street, New Town 7008 PLN-21-693



Prepared by: Imran Khan DESIGN ENGINEER, CITY OF HOBART

Table of Contents

INTRODUCTION2
STORMWATER CALCULATION
DETENTION TANK MAINTENANCE REQUIREMENT
Conclusion

1 | Page

INTRODUCTION

The following report outlines the supporting calculation to address stormwater management condition Sw6 of the Hobart City Council planning scheme 2015

- Accommodate a storm with an ARI of 20 years when the land serviced by the system is fully developed
- b) Stormwater runoff will be no greater than pre-existing runoff or any increase can be accommodated within the existing or upgraded public stormwater infrastructure.

STORMWATER CALCULATION

Pre development

Pre-development impervious area (roofs) A= 214 m2

Coefficient of Runoff C = 0.9

5-minutes duration-5% AEP I = 85.9 mm/h

Post-development

Post-development impervious area (roofs) A= 409.5 m2

Coefficient of Runoff C = 0.9

5-minutes duration-5% AEP I = 85.9 mm/h

Calculations have been based on the Rational Method for stormwater run-off:

$$Q = \frac{C*I*A}{3600}$$

Where:

Q = Design Flow Rate [L/s]

C = Runoff Coefficient

I = Rainfall Intensity [mm/hr] (5 minute - 5% AEP storm)

A = Sum of areas [m2]

Pre-development design flow rate $Q \text{pre} = \frac{0.9*85.9*214}{3600} = 4.5 \text{ L/s}$

Post-development design flow rate Qpost = $\frac{1*85.9*409.5}{3600}$ = 8.80 L/s

Difference between Pre & Post-development design flow rate = 8.80-4.5= 4.3 L/s

As shown above the post development flow Qpost is 4.3 L/s greater than the Qpre. Therefore onsite detention (OSD) is required for this development.

2 | P a g e

Minimum size detention tank requirement = 4.3*5*60= 1290 L.

The proposed 2200 Litres detention tank with a 25mm diameter orifice is more than enough for the proposed development.

Orifice flow rate $Q L/s = CdAo\sqrt{2gH}$

Discharge Co-efficient Cd =0.51 (Borda type orifice)

Area of orifice Ao= $\frac{\pi D^2}{4}$ = 0.000491 m2

Height above centreline of orifice to liquid surface H=0.6 m

Orifice flow rate $Q = 0.00085 \ m^{3}/s = 0.8 \ L/s$

DETENTION TANK MAINTENANCE REQUIREMENT

Maintenance Action	Frequency	Procedure
Inspect & Remove any	Six monthly	Remove the cover on tank to inspect orifice
blockage of orifice		
Check orifice diameter	Five yearly	Compare orifice diameter to approved design &
correct and sharp		ensure orifice is not damaged
edge		
Inspect overflow and	Six monthly	Ensure overflow outlet is clear of blockage
remove any blockage		
Visual inspection	Once in a year	Use flush tap inside detention tank to clean any
inside the tank to		sludge deposit inside the tank.
check sludge zone		
does not exceed		
orifice height		

Conclusion

Based on calculations, the 2200L round corrugated rainwater above ground tank (Diameter 1.6m, Inlet Height 1.6m) with a 25mm orifice is more than adequate to retain discharge flow rates up to 5% average exceedance (5 minutes, 1 in 20 years rain events). The Detention tank will need to be installed according to manufacturers' recommendations and be fitted with a minimum orifice of 25mm in diameter. A higher-level overflow outlet minimum DN75 is also required to be installed to cater for larger duration rain events.

3 | Page



Enquiries to: City Planning Phone: (03) 6238 2715 Email: coh@hobartcity.com.au

24 November 2021

(City Of Hobart) 16 Elizabeth Street HOBART TAS 7000 mailto: pigdenb@hobartcity.com.au

Dear Sir/Madam

62 - 66 CLARE STREET, NEW TOWN - WORKS IN COUNCIL RESERVE NOTICE OF LAND OWNER CONSENT TO LODGE A PLANNING APPLICATION - GMC-21-74

Site Address:

62-66 Clare Street, New Town

Description of Proposal:

Partial Demolition, Alterations and Extension

Applicant Name:

City of Hobart Brian Pigden

PLN (if applicable):

PLN-21-693

I write to advise that pursuant to Section 52 of the *Land Use Planning and Approvals Act 1993*, I grant my consent on behalf of the Hobart City Council as the owner/administrator of the above land for you to make application to the City for a planning permit for the development described above and as per the attached documents. I granted consent pursuant to delegation, a copy of which is enclosed.

Please note that the granting of the consent is only for the making of the application and in no way should such consent be seen as prejudicing any decision the Council is required to make as the statutory planning authority.

Hobart Town Hall 50 Macquarie Street Hobart TAS 7000 Hobart Council Centre 16 Elizabeth Street Hobart TAS 7000 City of Hobart GPO Box 503 Hobart TAS 7001 T 03 6238 2711 F 03 6234 7109 E coh@hobartcity.com.au W hobartcity.com.au **f** CityofHobartOfficial

ABN 39 055 343 428 Hobart City Council This consent does not constitute an approval to undertake any works and does not authorise the owner, developer or their agents any right to enter or conduct works on any Council managed land whether subject to this consent or not.

If planning approval is granted by the planning authority, you will be required to seek approvals and permits from the City as both landlord, land manager, or under other statutory powers (such as other legislation or City By-Laws) that are not granted with the issue of a planning permit under a planning scheme. This includes the requirement for you to reapply for a permit to occupy a public space under the City's Public Spaces By-law if the proposal relates to such an area.

Accordingly, I encourage you to continue to engage with the City about these potential requirements.

Yours faithfully

(John Fisher) ACTING DIRECTOR CITY AMENITY

Relevant documents/plans:

Plans by City of Hobart A01 - A07

City of Hobart

INSTRUMENT OF DELEGATION

General Delegation

Director City Amenity

- I, Kelly Grigsby, Chief Executive Officer, being the General Manager of the Hobart City Council as appointed by Council pursuant to section 61 of the *Local Government Act* 1993 ("the Act") hereby delegate pursuant to Section 64 of the Act, the following powers and functions to the **Director City Amenity**, or to such persons who may be acting in that position:
 - 1. to sign an application; and
 - 2. to provide written permission to make an application;

pursuant to section 52(1B) of the *Land Use Planning and Approvals Act 1993*, EXCEPT where an application is recommended for refusal.

Dated this 20 day of August 2021

(Kelly Grigsby) CHIEF EXECUTIVE OFFICER

Being the General Manager as appointed by the Council pursuant to Section 61 of the Local Government Act 1993 (tas)



www.hobartcity.com.au

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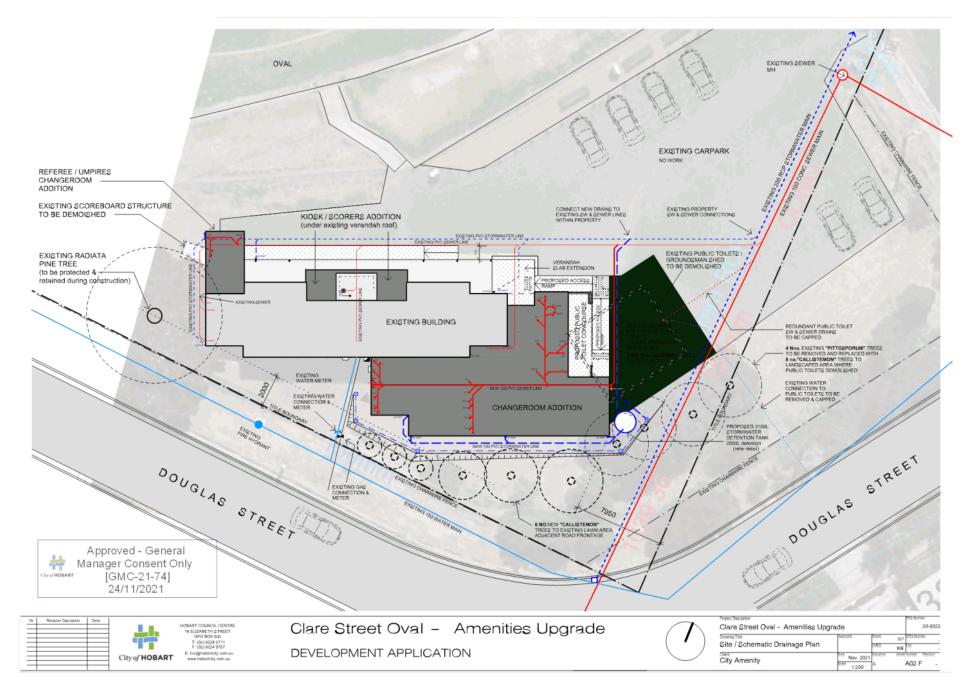


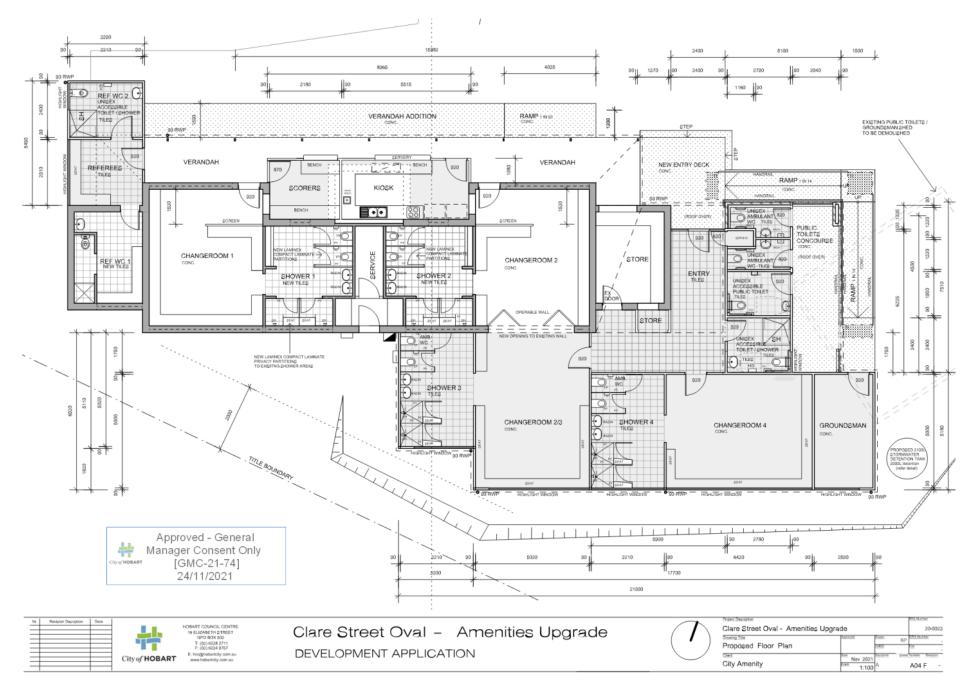


Clare Street Oval – Amenities Upgrade DEVELOPMENT APPLICATION

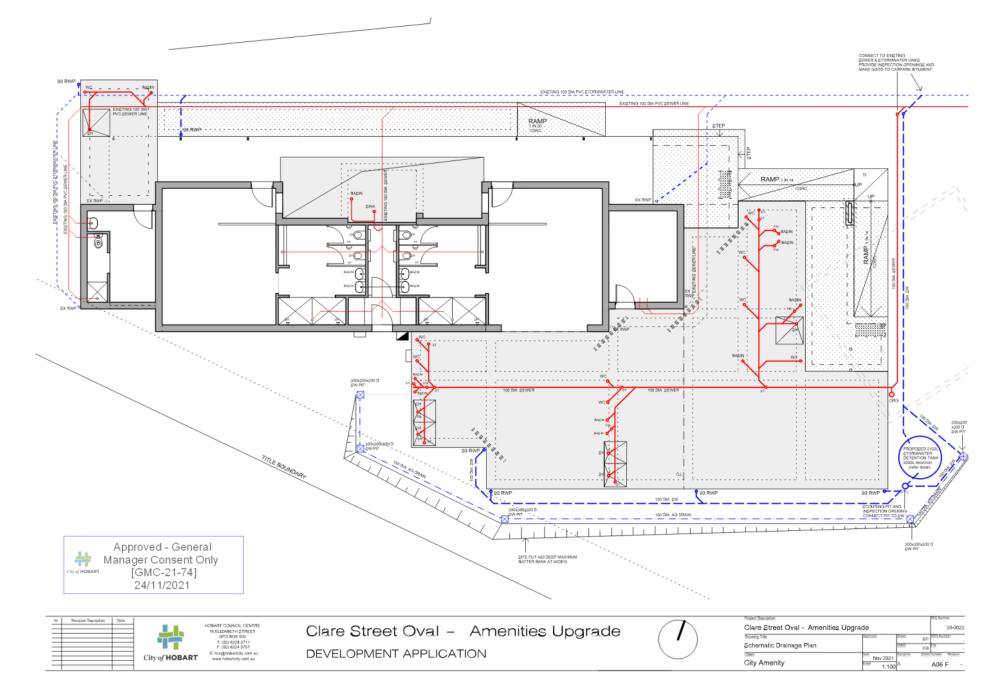
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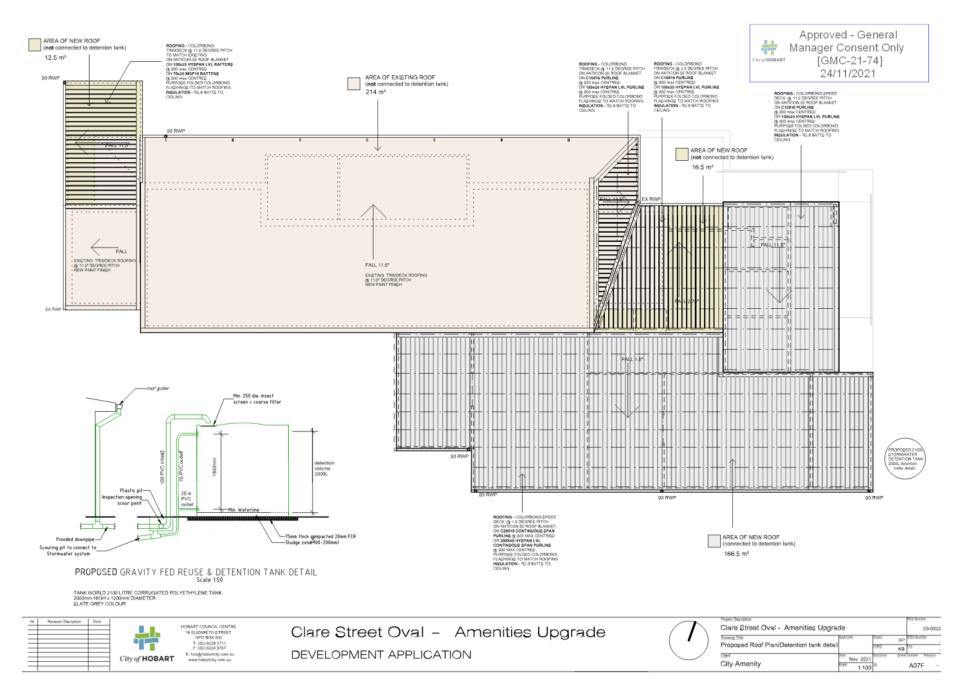








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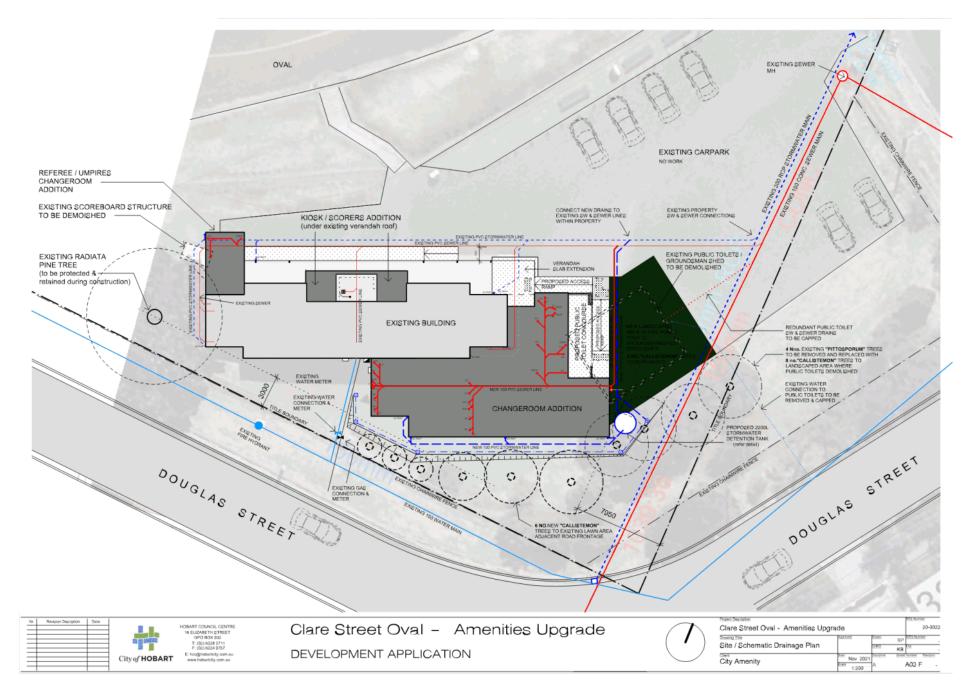


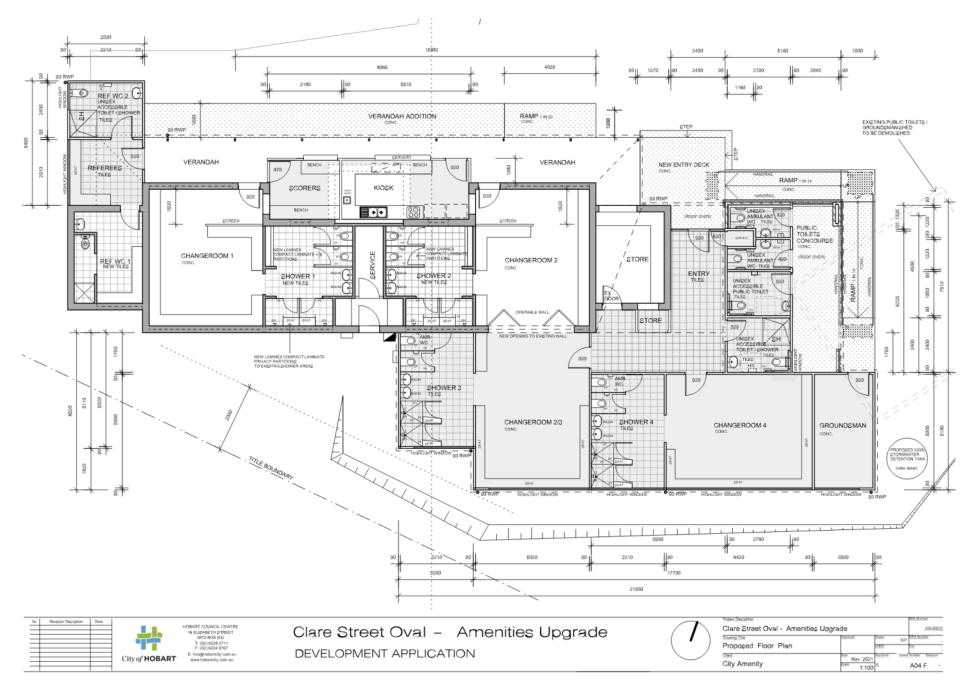


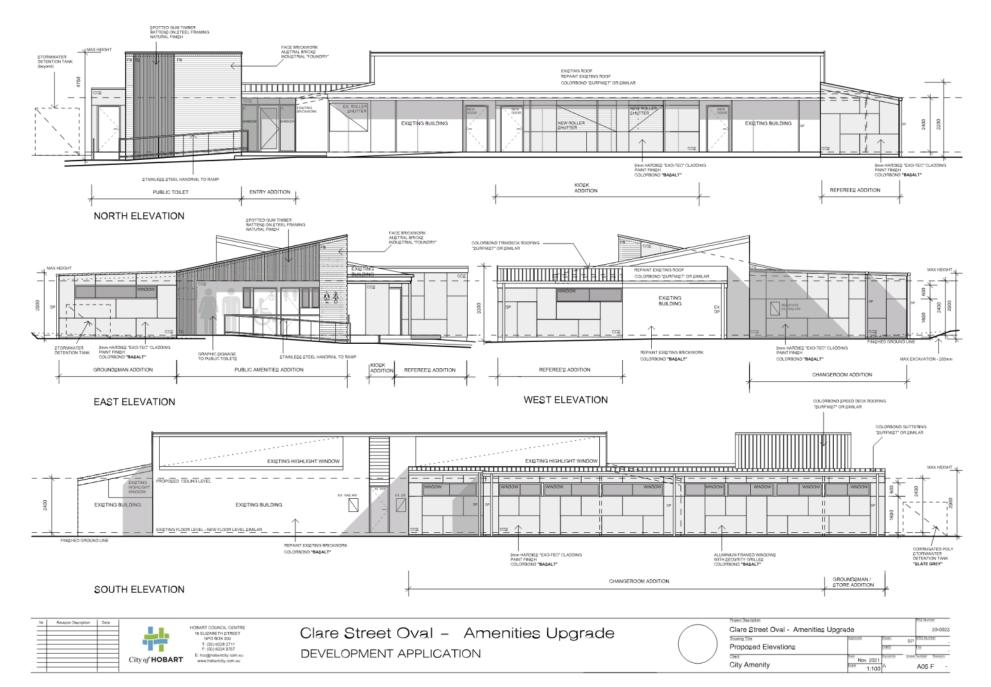
Clare Street Oval – Amenities Upgrade DEVELOPMENT APPLICATION

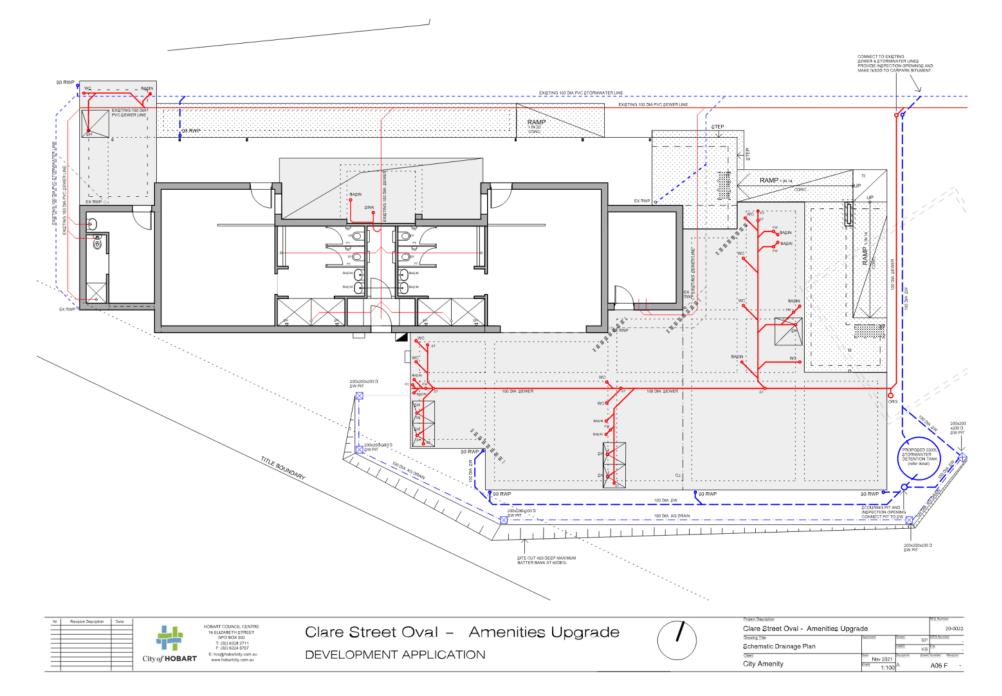
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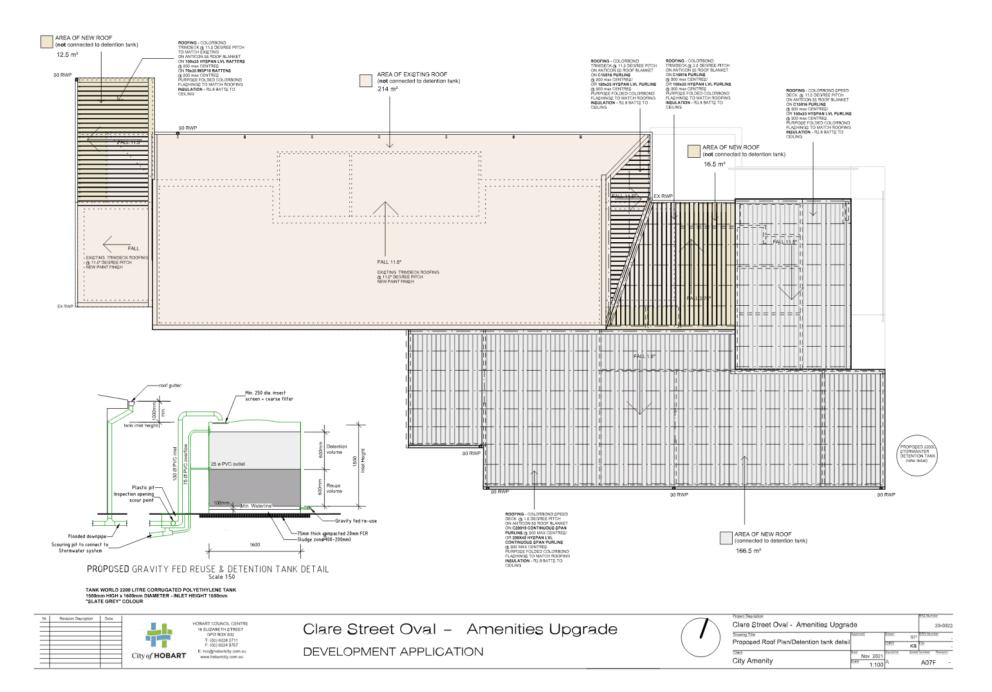
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Application Referral - Response

From:	
Recommendation:	
Date Completed:	
Address:	62 - 66 CLARE STREET, NEW TOWN
Proposal:	Partial Demolition, Alterations, and Extension
Application No:	PLN-21-693
Assessment Officer:	Adam Smee,

Referral Officer comments:

Application Referral Cultural Heritage - Response

From:	Nick Booth
Recommendation:	Proposal is acceptable without conditions.
Date Completed:	
Address:	62 - 66 CLARE STREET, NEW TOWN
Proposal:	Partial Demolition, Alterations, and Extension
Application No:	PLN-21-693
Assessment Officer:	Adam Smee,

Referral Officer comments:

This application relates to an existing single storey, rendered block pavilion providing changing and facilities/kiosk building associated with the Clare Street Oval, a Council owned sporting facility. The Oval and thus all the buildings and associated structures are identified as being a heritage listed place.

Planning permission is sought for the demolition of a single storey public toilet block and the erection of a single storey extension to the changing facilities to create an additional 2 dedicated changing rooms with shower facilities, additional referees changing facilities, new public toilets, store, relocated and extended kiosk, new entrance deck and extension to existing verandah. As part of the application, it is intended to remove 5 relatively small trees that provide a visual screen to the public toilets. 6 new callistemon trees are proposed between the property boundary and the rear of the proposed new addition.

It is noted that the site is identified within the 'Significant Garden Study' which states that -

"The oval was once part of a farm attached to the Orphan School at St. John's Park. It was redeveloped by the New Town Board into a recreation oval c. 1900."

The site is surrounded by Radiata pines which are identified as being a community landmark. It is noted that none of these pines are identified for removal.

With regards to Development and Works other than Demolition of Heritage Places, E13.7.2 states that development must be undertaken 'in a sympathetic manner which does not cause loss of historic cultural heritage significance'; and 'designed to be subservient to the historic cultural heritage values of the place and responsive to its dominant characteristics.' There are no Acceptable Solutions.

Performance Criteria states that

P1 - Development must not result in any of the following:

(a) loss of historic cultural heritage significance to the place through incompatible design, including in height, scale, bulk, form, fenestration, siting, materials, colours and finishes;

(b) substantial diminution of the historic cultural heritage significance of the place through loss of significant streetscape elements including plants, trees,

fences, walls, paths, outbuildings and other items that contribute to the significance of the place.

P2 - Development must be designed to be subservient and complementary to the place through characteristics including:

- (a) scale and bulk, materials, built form and fenestration;
- (b) setback from frontage;
- (c) siting with respect to buildings, structures and listed elements;
- (d) using less dominant materials and colours.

P3 - Materials, built form and fenestration must respond to the dominant heritage characteristics of the place, but any new fabric should be readily identifiable as such.

P4 - Extensions to existing buildings must not detract from the historic cultural heritage significance of the place.

The existing changing room facilities are considered to be relatively small and clearly read in form and materials as a dating from the mid 1980's. As such, whilst they adopt the form of a traditional sporting pavilion, architecturally they provide little to the cultural significance of the place other than clearly reflecting the principal use of the oval.

The proposed extensions would essentially retain the existing form of the pavilion, retain the building as a single storey structure whilst introducing some interesting additional architectural forms considered to compliment the original building. It is also noted that the new elements would be partially clad in battens of natural finish gum and bricks, adding much needed interest to the pallet of finish materials. As such, it is considered that the proposal would not lead to a loss of cultural significance through incompatible design, materials and finishes.

Importantly, the additional form and scale of the building would still remain in keeping with the sporting facilities of the Oval, retain the sense of openness associated with such a facility, and seek to retain the same level of screening from the road as the existing building and toilet block. Most importantly of all, the proposal would have no impact upon the health of the identified Radiata pines. As such, it is considered that the proposal would not lead to a substantial diminution of the historic cultural heritage significance of the place through loss of significant streetscape elements including plants and trees. It is noted that works will be undertaken relatively close to the root system of one such pine. However a formal condition requiring that the tree be protected during construction and materials are stored within the root bowl area have been attached by the Council Arborist.

It is therefore considered that the proposal would not detract from the characteristics or setting of this Heritage Listed place and would thus comply with Clauses E.13.7.2 P1, P2, P3 & P4 of the HIPS.

Nick Booth Heritage Officer 10 December 2021

7.1.4 1-7 CEDAR COURT, SANDY BAY ADJACENT ROAD RESERVE -PARTIAL DEMOLITION, ALTERATIONS, EXTENSION, FRONT FENCING, GARAGE, ALTERATION TO ACCESS, AND ASSOCIATED WORKS PLN-21-388 - FILE REF: F22/4514

Address:	1-7 Cedar Court, Sandy Bay and Adjacent Road Reserve
Proposal:	Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works
Expiry Date:	26 January 2022
Extension of Time:	Not applicable
Author:	Helen Ayers

RECOMMENDATION

That pursuant to the *Hobart Interim Planning Scheme 2015*, the City Planning Committee, in accordance with the delegations contained in its terms of reference, approve the application for partial demolition, alterations, extension, front fencing, garage, alterations to access, and associated works, at 1-7 Cedar Court, Sandy Bay 7005 for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-388 - 1-7 CEDAR COURT SANDY BAY TAS 7005 - Final Planning Documents, except where modified below.

Reason for condition

To clarify the scope of the permit.

ΤW

The use and/or development must comply with the requirements of TasWater as detailed in the form Submission to Planning Authority Notice, Reference No. TWDA 2021/01237-HCC dated 27/7/2021 as attached to the permit.

Reason for condition

To clarify the scope of the permit.

THC

The use and/or development must comply with the requirements of the Tasmanian Heritage Council as detailed in the Notice of Heritage Decision, THC Works Ref: 6640 dated 10 January 2022, as attached to the permit.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice:

Under section 23 of the Urban Drainage Act 2013 it is an offence for a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

SW 9

Prior to occupancy or the commencement of the approved use (whichever occurs first), stormwater detention for stormwater discharges from the development must be installed.

A stormwater management report and design must be submitted and approved prior to the issue of any approval under the *Building Act 2016* or the commencement of work on the site (whichever occurs first). The stormwater management report and design must be prepared by a suitably qualified engineer and must:

1. include detailed design and supporting calculations of the

detention tank showing:

- detention tank sizing such that there is no increase in flows from the developed site up to 5% AEP event and no worsening of flooding;
- 2. the layout, the inlet and outlet (including long section), outlet size, overflow mechanism and invert level;
- 3. the discharge rates and emptying times; and
- 4. all assumptions must be clearly stated;
- 2. include a supporting maintenance plan, which specifies the required maintenance measures to check and ensure the ongoing effective operation of all systems, such as: inspection frequency; cleanout procedures; descriptions and diagrams of how the installed systems operate; details of the life of assets and replacement requirements.

All work required by this condition must be undertaken and maintained in accordance with the approved stormwater management report and design.

ENG 2a

Prior to first occupation or commencement of use (whichever occurs first), vehicular barriers compliant with the Australian Standard AS/NZS 1170.1:2002 must be installed to prevent vehicles running off the edge of a parking area(s), where the drop from the edge of the area to a lower level is 600mm or greater, and physical controls (i.e. wheel stops, kerbing) must be installed for drops between 150mm and 600mm. All physical controls installed shall not introduce an increase in detriment to users (e.g. limit the approved parking area dimensions).

Reason for condition

To ensure the safety of users of the access driveway and parking module and compliance with the standard.

ENG 3b

Detailed designs of the proposed parking area(s) must be submitted and approved via the City's condition endorsement process, prior to the issuing of any approval under the *Building Act 2016* or commencement of work (whichever occurs first).

The detailed designs must:

- 1. be substantially in accordance with the advertised plans
- 2. show dimensions, levels, gradients and transitions
- show any excavations such as gate posts, retaining walls to be contained wholly within the property boundary without impacting the size or functionality of the access or turning area.
- 4. show retaining structures be adequately drained
- 5. be in accordance with the Australian Standard AS/NZS 2890.1:2004, where possible;
- where the driveway/access/ turning area deviate from the Australian Standards be prepared by a suitably qualified engineer.

The parking area must be constructed in accordance with the approved detailed designs, prior to first occupation or commencement of use (whichever occurs first).

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 4

Prior to first occupation or commencement of use (whichever occurs first), the access driveways and parking areas approved by this permit must be constructed to a sealed standard (spray seal, asphalt, concrete, impervious paving, or Council approved equivalent) and surface drained to the City's stormwater infrastructure.

Reason for condition

To ensure the safety of users of the access driveway and parking module, and that it does not detract from the amenity of users, adjoining occupiers or the environment by preventing dust, mud and sediment transport.

ENG 5

The number of car parking bays approved for use on site must be in accordance with those shown on the design drawings approved by condition ENG 3b.

Reason for condition

To ensure the provision of parking for the use is safe and efficient.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails

to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENG r3

Prior to first occupation or commencement of use (whichever occurs first), the proposed access driveway (i.e. vehicular crossing, including crossover) on the Cedar Court highway reservation must be designed and constructed in accordance with:

- Urban TSD-R09-v3 Urban Roads Driveways and TSD R14-v3 Type KC vehicular crossing;
- Footpath Urban Roads Footpaths TSD-R11-v3, reinforced concrete footpath.

Design drawings must be submitted and approved as a Condition Endorsement prior to any approval under the *Building Act 2016*. The design drawings must:

- Show the cross and long section of the driveway crossover within the highway reservation and onto the property for the new crossover at the head;
- 2. Detail any services or infrastructure (ie light poles, pits, awnings) at or near the proposed driveway crossover;
- Show swept path templates in accordance with AS/NZS 2890.1 2004 B85 design template;
- If the design deviates from the requirements of the TSD, then demonstrate that a B85 vehicle can access the driveway from the road pavement into the property without scraping the vehicle's underside;
- 5. Show that vehicular and pedestrian sight lines are met as per AS/NZS 2890.1 2004.
- 6. Be prepared and certified by a suitable qualified person, to satisfy the above requirements.

All work required by this condition must be undertaken in accordance with the approved drawings.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Please note that your proposal does not include adjustment of footpath levels. Any adjustment to footpath levels necessary to suit the design of proposed floor, parking module or driveway levels will require separate agreement from Council's Road Services Engineer and may require further planning approvals. It is advised to place a note to this affect on construction drawings for the site and/or other relevant engineering drawings to ensure that contractors are made aware of this requirement.

Reason for condition

To ensure that works will comply with the Council's standard requirements.

ENV 2

Sediment and erosion control measures, in accordance with an approved soil and water management plan (SWMP), must be installed prior to the commencement of work and maintained until such time as all disturbed areas have been stabilised and/or restored or sealed to the Council's satisfaction.

A SWMP must be submitted as a Condition Endorsement prior to the issue of any approval under the *Building Act 2016* or the commencement of work, whichever occurs first. The SWMP must be prepared in accordance with the Soil and Water Management on Building and Construction Sites fact sheets (Derwent Estuary Program, 2008), available here.

All work required by this condition must be undertaken in accordance with the approved SWMP.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To avoid the pollution and sedimentation of roads, drains and natural watercourses that could be caused by erosion and runoff from the development.

HER 9

All sandstone and red bricks from the demolition must not be disposed of and must be retained on site and reused in landscaping.

Prior to the issue of any approval under the *Building Act 2016*, revised plans must be submitted and approved as a Condition Endorsement showing the retention and reuse of all sandstone and red bricks in accordance with the above requirement.

All work required by this condition must be undertaken in accordance with the approved revised plans.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that demolition in whole or part of a heritage place does not result in the loss of historic cultural heritage values.

HER 10

The ground levels of the new court finished in SS1 and the strip of crushed limestone must be below the face to the timber verandah on the south east elevation as shown on drawing A02-00. The existing step must be retained with no increase in ground levels.

Prior to the issue of any approval under the *Building Act 2016*, revised plans must be submitted and approved as a Condition Endorsement showing the required ground levels in accordance with the above requirement.

All work required by this condition must be undertaken in accordance with the approved revised plans.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that work in whole or part of a heritage place does not result in the loss of historic cultural heritage values.

HER 11

The new exposed aggregate concrete driveway shown on drawing A02-00 and A02-03 must be of a muted design, colour and finish and be sympathetic to the heritage values of the heritage listed place.

Prior to the issue of any approval under the *Building Act 2016*, revised plans must be submitted and approved showing details of the colour and finish of the driveway in accordance with the above requirements.

All work required by this condition must be undertaken in accordance with the approved revised plans.

Reason for condition

To ensure that development in a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

HER 16

The front fence (including both the stucco brick piers and the wrought iron infill panels) along the eastern boundary, from the 'existing store' to the north western corner of the site, must be no more than 1.5m in height above natural ground level, with the wrought iron infill no less than 74% transparent.

The remaining front fence must not exceed the height shown on the approved plans, but may be reduced to match the above requirement if desired.

Prior to the issue of any approval under the *Building Act 2016*, revised plans must be submitted and approved as a Condition Endorsement showing the front fence in accordance with the above requirement.

Advice:

This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance, and to provide reasonable opportunity for privacy for dwellings whilst maintaining the streetscape.

HER 17c

The external colours, materials and finishes of the approved development must be substantially in accordance with the approved plans. Any substantial change in the colours, materials and finishes requires further approval.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

HER s3

The red ochre and black truck pointing within the existing dining room (originally the flower room/conservatory) must be retained and must not be painted or covered in a plaster finish. Any painted or plastered finishes revealed during demolition must be repaired and reinstated to original condition.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause the loss of historic heritage values.

HER s4

All building plans submitted for approval under the *Building Act 2016* must include a notation with the following wording:

"This house is a very significant house and is heritage listed in the Heritage Code of the *Hobart Interim Planning Scheme 2015.* The works are not normal building work and care is to be taken to protect historic fabric from damage during construction or to remove original materials and construction unless part of the approved plans. There are specific heritage conditions on the permit issued requiring the retention of original fabric. If in doubt, seek specialist advice before taking action. Every effort should be made to protect existing building fabric and structural elements into the new construction where the new construction will be visible."

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not result in the loss of historic heritage values.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

CONDITION ENDORSEMENT

If any condition requires that further documents are submitted and approved, you will need to submit the relevant documentation to satisfy the condition via the Condition Endorsement Submission on Council's online services e-planning portal. Detailed instructions can be found here.

A fee of 2% of the value of the works for new public assets (stormwater infrastructure, roads and related assets) will apply for the condition endorsement application.

Once approved, the Council will respond to you via email that the condition has been endorsed (satisfied).

Where building approval is also required, it is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016.* Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

OCCUPATION OF THE PUBLIC HIGHWAY

You may require a permit for the occupation of the public highway for construction or special event (e.g. placement of skip bin, crane, scissor lift etc). Click here for more information.

You may require a Permit to Open Up and Temporarily Occupy a Highway (for work in the road reserve). Click here for more information.

STORMWATER

Please note that in addition to a building and/or plumbing permit, development must be in accordance with the Hobart City Council's

Infrastructure By law. Click here for more information.

WORK WITHIN THE HIGHWAY RESERVATION

Please note development must be in accordance with the Hobart City Council's Infrastructure By law. Click here for more information.

DRIVEWAY SURFACING OVER HIGHWAY RESERVATION

If a coloured or textured surface is used for the driveway access within the Highway Reservation, the Council or other service provider will not match this on any reinstatement of the driveway access within the Highway Reservation required in the future.

REDUNDANT CROSSOVERS

Redundant crossovers are required to be reinstated under the Hobart City Council's Infrastructure By law. Click here for more information.

WORK PLACE HEALTH AND SAFETY

Appropriate occupational health and safety measures must be employed during the works to minimise direct human exposure to potentially-contaminated soil, water, dust and vapours. Click here for more information.

PROTECTING THE ENVIRONMENT

In accordance with the *Environmental Management and Pollution Control Act 1994*, local government has an obligation to "use its best endeavours to prevent or control acts or omissions which cause or are capable of causing pollution." Click here for more information.

LEVEL 1 ACTIVITIES

The activity conducted at the property is an environmentally relevant activity and a Level 1 Activity as defined under s.3 of the *Environmental Management and Pollution Control Act 1994*. For further information on what your responsibilities are, click here.

NOISE REGULATIONS

Click here for information with respect to noise nuisances in residential areas.

WASTE DISPOSAL

It is recommended that the developer liaise with the Council's Cleansing and Solid Waste Unit regarding reducing, reusing and

recycling materials associated with demolition on the site to minimise solid waste being directed to landfill.

Further information regarding waste disposal can also be found on the Council's website.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

Attachment A:	PLN-21-388 - 1-7 CEDAR COURT SANDY BAY TAS 7005 - Planning Committee or Delegated Report I T
Attachment B:	PLN-21-388 - 1-7 CEDAR COURT SANDY BAY TAS 7005 - CPC Agenda Documents I
Attachment C:	PLN-21-388 - 1-7 CEDAR COURT SANDY BAY TAS 7005 - Planning Referral Officer Cultural Heritage Report I 🖀



APPLICATION UNDER HOBART INTERIM PLANNING SCHEME 2015

City of HOBART	
Type of Report:	Committee
Committee:	24 January 2022
Expiry Date:	26 January 2022
Application No:	PLN-21-388
Address:	1 - 7 CEDAR COURT , SANDY BAY ADJACENT ROAD RESERVE
Applicant:	Nova Thani 1 Cedar Court
Proposal:	Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works
Representations:	None
Performance criteria:	Zone Development Standards, Road and Railway Assets Code, Parking and Access Code, Historic Heritage Code

1. Executive Summary

- 1.1 Planning approval is sought for Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works, at 1-7 Cedar Court, Sandy Bay.
- 1.2 More specifically the proposal includes:
 - Internal demolition of the kitchen, laundry, downstairs toilet, and upstairs bathroom.
 - Demolition of an external wall to the current dining room.
 - Removal of some trees.
 - Demolition of a landscaping retaining wall.
 - New toilet, laundry and bathroom in the existing locations.
 - Construction of a new addition off the current dining room containing a kitchen, mud room, gym, storage, and four car garage with toilet.
 - New swimming pool to the north east of the addition.
 - New crossover and driveway to access the new garage.
 - Bin enclosure by the driveway / garage.
 - Demolition of the old, and new replacement front fence.

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- 1.3 The proposal relies on performance criteria to satisfy the following standards and codes:
 - 1.3.1 General Residential Zone Frontage Fences
 - 1.3.2 Road and Railway Assets Code Sight Distance at Accesses, Junctions and Level Crossings
 - 1.3.3 Parking and Access Code Number of Car Parking Spaces, Design of Vehicular Accesses, and Layout of Parking Area
 - 1.3.4 Historic Heritage Code Development Standards for Heritage Places
- 1.4 No representations were received during the statutory advertising period between 17 December 2021 and 7 January 2022.
- 1.5 The proposal is recommended for approval subject to conditions.
- 1.6 The final decision is delegated to the City Planning Committee, because it includes works in the Council Road Reservation.

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2. Site Detail

2.1 The application site is an irregularly shaped 3336m² lot on the eastern side of Cedar Court, Sandy Bay. There is an existing dwelling of both local and state heritage significance located toward the centre of the street front boundary. The remainder of the property is a large garden setting for the dwelling. There is currently a circular driveway toward the northern end of the Cedar Court boundary, with separate entrance and exit points to the street. The site is surrounded by residential use and development.



Figure 1: The location of the application site is highlighted in yellow.

3. Proposal

3.1 Planning approval is sought for Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works, at 1-7 Cedar Court, Sandy Bay.

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- 3.2 More specifically the proposal is for:
 - Internal demolition of the kitchen, laundry, downstairs toilet, and upstairs bathroom.
 - Demolition of an external wall to the current dining room.
 - Removal of some trees.
 - Demolition of a landscaping retaining wall.
 - New toilet, laundry and bathroom in the existing locations.
 - Construction of a new addition off the current dining room containing a kitchen, mud room, gym, storage, and four car garage with toilet.
 - New swimming pool to the north east of the addition.
 - New crossover and driveway to access the new garage.
 - Bin enclosure by the driveway / garage.
 - Demolition of the old, and new replacement front fence.

4. Background

4.1 Planning application PLN-17-613 was approved on 17 October 2017, and included minor alterations to the dwelling. There is no other relevant background for this application.

5. Concerns raised by representors

5.1 No representations were received during the statutory advertising period between 17 December 2021 and 7 January 2022.

6. Assessment

- 6.1 The Hobart Interim Planning Scheme 2015 is a performance based planning scheme. To meet an applicable standard, a proposal must demonstrate compliance with either an acceptable solution or a performance criterion. Where a proposal complies with a standard by relying on one or more performance criteria, the Council may approve or refuse the proposal on that basis. The ability to approve or refuse the proposal relates only to the performance criteria relied on.
- 6.2 The site is located within the General Residential Zone of the *Hobart Interim Planning Scheme 2015*.
- 6.3 There is no change proposed to the existing single dwelling use of the site. The existing use is a permitted use in the zone.

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- 6.4 The proposal has been assessed against:
 - 6.4.1 Part D 10 General Residential Zone
 - 6.4.2 Part E 5.0 Road and Railway Asses Code
 - 6.4.3 Part E E6.0 Parking and Access Code
 - 6.4.4 Part E E7.0 Stormwater Management Code
 - 6.4.5 Part E E13.0 Historic Heritage Code
- 6.5 The proposal relies on the following performance criteria to comply with the applicable standards:
 - 6.5.1 General Residential Zone:

Frontage Fences for all Dwellings – Part D 10.4.7 P1

6.5.2 Road and Railway Asses Code:

Sight Distance at Accesses, Junctions and Level Crossings - Part E E5.6.4

6.5.3 Parking and Access Code:

Number of Parking Spaces - Part E E6.6.1 P1 Design of Vehicular Accesses - Part E E6.7.2 P1 Layout of Parking Area - Part E E6.7.5 P1

6.5.4 Historic Heritage Code:

Development Standards for Heritage Places - Part E E13.7.1 P1 and E13.7.2 P1, P2, P3, P4 and P5

- 6.6 Each performance criterion is assessed below.
- 6.7 Frontage Fences for all Dwellings Part D 10.4.7 P1
 - 6.7.1 There is no acceptable solution for 10.4.7 A1.
 - 6.7.2 The proposal includes a new front fence with masonry pillars and open wire mesh between. The maximum fence height is 2.4m, though it steps

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along the frontage in response to the ground level, so is lower in many locations.

- 6.7.3 There is no acceptable solution; therefore assessment against the performance criterion is relied on.
- 6.7.4 The performance criterion at clause 10.4.7 P1 provides as follows:

A fence (including a free-standing wall) for a dwelling within 4.5m of a frontage must:

(a) provide for security and privacy while allowing for passive surveillance of the road; and

(b) be compatible with the height and transparency of fences in the street, having regard to:
(i) the topography of the site; and
(ii) traffic volumes on the adjoining road.

- 6.7.5 The proposed fence is sufficiently transparent that it offers no privacy benefit to the dwelling, rather providing for security as a result of the height. Mutual passive surveillance can be achieved as a result of this transparency. Unfortunately, there are no other fences in the street of a similar height or design, and there are no topographical concerns (such as a steep site) to support the proposed fence height, so it is difficult to justify the proposed height in the context of the site and its surrounds. The location of the site at the 'dead end' of a cul de sac further limits the ability to justify the height of the proposed fence as there is limited passing traffic.
- 6.7.6 Notwithstanding this, there is an existing lapped paling front fence which extends from the 'existing store' around the property to the south, south east along the front boundary. This fence is above 1.5m high, and as such creates the appearance of a side fence for this portion of the boundary. This means that there is justification for a higher, more transparent fence in this location to help restore the appearance of a front, rather than a side boundary.
- 6.7.7 As such, It is considered appropriate to condition a reduction in the maximum height of the frontage fence where previously there was none (from the 'existing store' around to the north), and to leave the option open to the applicant to reduce the height of the remainder of the fence consistently, or to retain the proposed height to the south as they see fit.

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- 6.7.8 A condition has been proposed by Council's Cultural Heritage Officer to reduce the height of the fence to 1.5m. In light of the above, this is considered appropriate, with the modification to include the ability to reduce the whole of the fence height for consistency if the applicant desires.
- 6.7.9 The proposal complies with the performance criterion, subject to the nominated condition.
- 6.8 Sight Distance at Accesses, Junctions and Level Crossings Part E E5.6.4
 - 6.8.1 The acceptable solution at clause E5.6.4 A1 requires accesses and junctions to meet the standard specified.
 - 6.8.2 The proposal includes a new site access in an irregular location.
 - 6.8.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.8.4 The performance criterion at clause E5.6.4 P1 provides as follows:

The design, layout and location of an access, junction or rail level crossing must provide adequate sight distances to ensure the safe movement of vehicles, having regard to:

- (a) the nature and frequency of the traffic generated by the use;
- (b) the frequency of use of the road or rail network;
- (c) any alternative access;
- (d) the need for the access, junction or level crossing;
- (e) any traffic impact assessment;
- (f) any measures to improve or maintain sight distance; and
- (g) any written advice received from the road or rail authority.
- 6.8.5 The application has been considered by Council's Development Engineer, who has provided the following assessment:

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The sight distance at access and junctions must satisfy either Acceptable Solutions or Performance Criteria for each clause of the Hobart Interim Planning Scheme 2015 (HIPS 2015).

Documentation submitted to date does not satisfy the Acceptable Solution for clause E5.6.4 and as such, shall be assessed under Performance Criteria.

Acceptable solution - A1: Sight distances at:

(a) an access or junction must comply with the Safe Intersection Sight Distance shown in Table E5.1; and - NON COMPLIANT (b) rail level crossings must comply with AS1742.7 Manual of uniform traffic control devices - Railway crossings, Standards Association of Australia. - N/A

Performance Criteria – P1: - COMPLIANT

The design, layout and location of an access, junction or rail level crossing must provide adequate sight distances to ensure the safe movement of vehicles, having regard to:

- (a) the nature and frequency of the traffic generated by the use,
- (b) the frequency of use of the road or rail network,
- (c) any alternative access,
- (d) the need for the access, junction or level crossing,
- (e) any traffic impact assessment,
- (f) any measures to improve or maintain sight distance,
- (g) any written advice received from the road or rail authority,

The proposed vehicular access is located at a non-standard road terminus turning head ('WYE' style cul-de-sac), therefore the sight distances cannot be applied in accordance with the Acceptable solution by default. Submitted plans appear to indicate the proposed access is to the satisfaction of the Road Authority, see GMC-21-42.

6.8.6 The proposal complies with the performance criterion.

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- 6.9 Number of Car Parking Spaces Part E E6.6.1 P1
 - 6.9.1 The acceptable solution at clause E6.6.1 A1 requires two (2) car parking spaces to be provided on site for the single dwelling use of the site.
 - 6.9.2 The proposal includes four (4) car parking spaces in the new garage, with 'drop off facilities in the existing circular driveway, and no car parking in any other buildings / locations on the site.
 - 6.9.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.9.4 The performance criterion at clause E6.6.1 P1 provides as follows:

The number of on-site car parking spaces must be sufficient to meet the reasonable needs of users, having regard to all of the following:

(a) car parking demand;

(b) the availability of on-street and public car parking in the locality;

(c) the availability and frequency of public transport within a 400m walking distance of the site;

(d) the availability and likely use of other modes of transport;

(e) the availability and suitability of alternative arrangements for car parking provision;

(f) any reduction in car parking demand due to the sharing of car parking spaces by multiple uses, either because of variation of car parking demand over time or because of efficiencies gained from the consolidation of shared car parking spaces;

(g) any car parking deficiency or surplus associated with the existing use of the land;

(h) any credit which should be allowed for a car parking demand deemed to have been provided in association with a use which existed before the change of parking requirement, except in the case of substantial redevelopment of a site;

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(i) the appropriateness of a financial contribution in lieu of parking towards the cost of parking facilities or other transport facilities, where such facilities exist or are planned in the vicinity;

(j) any verified prior payment of a financial contribution in lieu of parking for the land;

(k) any relevant parking plan for the area adopted by Council;

(*I*) the impact on the historic cultural heritage significance of the site if subject to the Local Heritage Code;

(*m*) whether the provision of the parking would result in the loss, directly or indirectly, of one or more significant trees listed in the Significant Trees Code.

6.9.5 The application has been considered by Council's Development Engineer, who has provided the following assessment:

The parking number assessment must satisfy either Acceptable Solutions or Performance Criteria for each clause of the Hobart Interim Planning Scheme 2015 (HIPS 2015).

Documentation submitted to date does not satisfy the Acceptable Solution for clause E6.6.1 (a) and as such, shall be assessed under Performance Criteria.

Acceptable solution - A1: The number of on-site car parking spaces must be:

(a) no less than and no greater than the number specified in Table E6.1; - NON COMPLIANT

Performance Criteria - P1: The number of on-site car parking spaces must be sufficient to meet the reasonable needs of users, having regard to all of the following:

(a) car parking demand; - N/A

(b) the availability of on-street and public car parking in the locality; - N/A

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(c) the availability and frequency of public transport within a 400m walking distance of the site; - N/A

(d) the availability and likely use of other modes of transport; - N/A

(e) the availability and suitability of alternative arrangements for car parking provision; - N/A

(f) any reduction in car parking demand due to the sharing of car parking spaces by multiple uses, either because of variation of car parking demand over time or because of efficiencies gained from the consolidation of shared car parking spaces; - N/A

(g) any car parking deficiency or surplus associated with the existing use of the land; - No existing deficiency or recognized surplus.

(h) any credit which should be allowed for a car parking demand deemed to have been provided in association with a use which existed before the change of parking requirement, except in the case of substantial redevelopment of a site; - N/A

(i) the appropriateness of a financial contribution in lieu of parking towards the cost of parking facilities or other transport facilities, where such facilities exist or are planned in the vicinity; - N/A

(j) any verified prior payment of a financial contribution in lieu of parking for the land; - N/A

(k) any relevant parking plan for the area adopted by Council; - N/A

(I) the impact on the historic cultural heritage significance of the site if subject to the Local Heritage Code; - N/A

(*m*) whether the provision of the parking would result in the loss, directly or indirectly, of one or more significant trees listed in the Significant Trees Code. - No impact determined, albeit large trees noted within vicinity.

Based on the above assessment, the proposed surplus quantity may be accepted due to the intrinsic benefits of infrastructure and residential amenity.

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- 6.9.6 In addition, given the size of the dwelling, the size of the site, the design of the proposed new garage, and the dead-end street on which the site is situated, it is considered appropriate to provide additional car parking to meet the reasonable needs of the users of the site.
- 6.9.7 The proposal complies with the performance criterion.
- 6.10 Design of Vehicular Accesses E6.7.2 P1
 - 6.10.1 The acceptable solution at clause E6.7.2 A1 requires vehicle accesses to be designed in accordance with the relevant Australian Standard.
 - 6.10.2 The proposal includes a proposed access that is not capable of meeting the sight distances required under the relevant Australian Standard.
 - 6.10.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
 - 6.10.4 The performance criterion at clause E6.7.2 P1 provides as follows:

Design of vehicle access points must be safe, efficient and convenient, having regard to all of the following:

(a) avoidance of conflicts between users including vehicles, cyclists and pedestrians;

(b) avoidance of unreasonable interference with the flow of traffic on adjoining roads;

(c) suitability for the type and volume of traffic likely to be generated by the use or development;

(d) ease of accessibility and recognition for users.

6.10.5 The application has been considered by Council's Development Engineer, who has provided the following assessment:

The design of the vehicle access must satisfy either Acceptable Solutions or Performance Criteria for each clause of the Hobart Interim Planning Scheme 2015 (HIPS 2015).

Documentation submitted to date does not satisfy the Acceptable

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Solution for clause E6.7.2 and as such, shall be assessed under Performance Criteria.

Submitted plans show pedestrian sight triangles areas abutting the proposed domestic driveways are not kept clear due to proposed screening along the property boundary.

Acceptable Solution - A1: Design of vehicle access points must comply with all of the following:

(a) in the case of non-commercial vehicle access; the location, sight distance, width and gradient of an access must be designed and constructed to comply with section 3 – "Access Facilities to Off-street Parking Areas and Queuing Areas" of AS/NZS 2890.1:2004 Parking Facilities Part 1: Off-street car parking - NON COMPLIANT

Performance Criteria - P1: - COMPLIANT

Design of vehicle access points must be safe, efficient and convenient, having regard to all of the following: (a) avoidance of conflicts between users including vehicles,

cyclists and pedestrians, (b) avoidance of unreasonable interference with the flow of traffic on adjoining roads,

(c) suitability for the type and volume of traffic likely to be generated by the use or development, and

(d) ease of accessibility and recognition for users.

Submitted plans indicate the design will offer reasonable intervisibility and transparency for pedestrian sight distances that may be accepted given the, location of the proposed driveways, and the low volume of traffic, on the (local) road from which the property gains access.

- 6.10.6 The proposal complies with the performance criterion.
- 6.11 Layout of Parking Area Part E E6.7.5 P1
 - 6.11.1 The acceptable solution at clause E6.7.5 A1 requires car parking areas to be laid out in accordance with the relevant Australian Standard.
 - 6.11.2 The proposal includes car parking areas that are not laid out in accordance with the relevant Australian Standard.

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- 6.11.3 The proposal does not comply with the acceptable solution; therefore assessment against the performance criterion is relied on.
- 6.11.4 The performance criterion at clause E6.7.5 P1 provides as follows:

The layout of car parking spaces, access aisles, circulation roadways and ramps must be safe and must ensure ease of access, egress and manoeuvring on-site.

6.11.5 The application has been considered by Council's Development Engineer, who has provided the following assessment:

> The layout of the parking area must satisfy either Acceptable Solutions or Performance Criteria for each clause of the Hobart Interim Planning Scheme 2015 (HIPS 2015).

Documentation submitted to date does not satisfy the Acceptable Solution for clause E6.7.5 and as such, shall be assessed under Performance Criteria.

Acceptable Solution A1: - NON COMPLIANT The layout of car parking spaces, access aisles, circulation roadways and ramps must be designed and constructed to comply with section 2 "Design of Parking Modules, Circulation Roadways and Ramps" of AS/NZS 2890.1:2004 Parking Facilities Part 1: Offstreet car parking and must have sufficient headroom to comply with clause 5.3 "Headroom" of the same Standard.

Car Parking Space Dimensions (AS2890.1 Fig 2.2 = 2.4x5.4m): Dimensions shown Car Parking Space Design Envelope (AS2890.1 Fig 5.2 300mm clearance on side): Design shown Headroom: (AS2890.1 Fig 5.3 = 2.2m clearance): >2.1m (2.25m) detailed Parking Space Gradient (5%): Not shown, albeit RL detailed Aisle Width (AS2890.1 Fig 2.2 = 5.8m Class 1A): >5.8m (5.95m) detailed Garage Door Width & Apron (AS2890.1 Fig 5.4 2.4m wide door = 7m wide apron): Not shown, albeit swept paths provided Parking Module Gradient (5% Acceptable, 10% Performance): Grades shown, albeit not engineering plans

Driveway Gradient & Width (AS2890.1 Section 2.6 = 25% and

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3m): Design shown

Transitions (AS2890.1 Section 2.5.3 = 12.5% summit, 15% sag = >2m transition): Transitions shown, albeit not engineering plans Vehicular Barriers (AS2890.1 Section 2.4.5.3 = 600mm drop, 1:4 slope): Apparent drop extent shown, but not height Blind Aisle End Widening (AS2890.1 Fig 2.3 = 1m extra): Non-compliant blind aisle parking bay (CAR4 <2.6m), albeit swept paths provided

"Jockey Parking" (Performance Assessment): N/A

Performance Criteria - P1: - COMPLIANT The layout of car parking spaces, access aisles, circulation roadways and ramps must be safe and must ensure ease of access, egress and manoeuvring on-site. Submitted design documentation appears to meet relevant design parameters, and therefore may be accepted.

- 6.11.6 The proposal complies with the performance criterion.
- 6.12 Development Standards for Heritage Places Part E E13.7.1 P1 and E13.7.2 P1, P2, P3, P4 and P5
 - 6.12.1 There are no acceptable solutions for E13.7.1 A1, E13.7.2 A1, A2, 3, A4, or A5.
 - 6.12.2 The proposal includes demolition and an extension to a place that is heritage listed in table E13.1 of the Historic Heritage Code of the Scheme, and a new front fence for the property.
 - 6.12.3 There are no acceptable solutions; therefore assessment against the performance criterion is relied on.
 - 6.12.4 The performance criterion at clauses E13.7.1 P1, E13.7.2 P1, P2, P3, P4, P5 and P6 provide as follows:

E13.7.1

P1 - Demolition must not result in the loss of significant fabric, form, items, outbuildings or landscape elements that contribute to the historic cultural heritage significance of the place unless all of the following are satisfied;

(a) there are, environmental, social, economic or safety reasons of

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greater value to the community than the historic cultural heritage values of the place;

(b) there are no prudent and feasible alternatives;

(c) important structural or façade elements that can feasibly be retained and reused in a new structure, are to be retained;

(d) significant fabric is documented before demolition.

E13.7.2 P1 - Development must not result in any of the following:

(a) loss of historic cultural heritage significance to the place through incompatible design, including in height, scale, bulk, form, fenestration, siting, materials, colours and finishes;

(b) substantial diminution of the historic cultural heritage significance of the place through loss of significant streetscape elements including plants, trees, fences, walls, paths, outbuildings and other items that contribute to the significance of the place.

P2 - Development must be designed to be subservient and complementary to the place through characteristics including:

- (a) scale and bulk, materials, built form and fenestration;
- (b) setback from frontage;
- (c) siting with respect to buildings, structures and listed elements;
- (d) using less dominant materials and colours.

P3 - Materials, built form and fenestration must respond to the dominant heritage characteristics of the place, but any new fabric should be readily identifiable as such.

P4 - Extensions to existing buildings must not detract from the historic cultural heritage significance of the place.

P5 - New front fences and gates must be sympathetic in design, (including height, form, scale and materials), to the style, period and characteristics of the building to which they belong.

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6.12.5 The application has been considered by Council's Cultural Heritage Officer, who has provided the following assessment:

> This application is for demolition and an extension to a place that is heritage listed in table E13.1 of the Historic Heritage Code of the Scheme.

The place is known as 'The Gables' and was designed by Melbourne architect Chris Cowper and constructed in 1911. It is a significant building and was the home of Henry Allport for some of its time. Henry Allport is well known for various reasons including the fact that he bequeathed the Allport collection of decorative arts, rare books and art and other items to the people of Tasmania in 1965, a collection that remains one of the most generous in Tasmania's short European history. This collection was once kept in this house and items including the chandeliers from the house are now part of the Allport Library and Museum of Fine Arts.

The house has numerous original features and is a one of the most extravagant examples of Federation Queen Anne architecture in Hobart, with numerous gables, terra cotta roof, ornate ridge tiles and gargoyle finials, tuck pointed brickwork, bay windows, shingles, prominent and highly ornate chimneys. Inside, the house has extensive and grand wood paneling, plate rails, extensive timber paneled doors and ornate ceiling details as well as Art Nouveau detailing on door handles and tiles. Surprisingly, the internal staircase is relatively modest and a close examination of it indicates that it has been modified in recent decades with the introduction of balusters with love hearts a decorative feature that is not consistent with other timber detailing. Some other alterations that were made in the 1970s and 1980s include altered tiling in the bathrooms, new fixtures and fittings in the kitchen and bathroom. The land (3302m2) on which the house sits once had a driveway from Maning Ave. It was a large internal and private home with expansive hedges (these are specifically heritage listed) with a tennis court to the rear. The block was subdivided in the post-war period (date unknown, but possibly 1960s/70s) with a cul-de-sac that extends around the side of the house. The front entrance of the house faces Cedar Court and has no front fence. The western side elevation has a recent 1.8 m high paling fence and is a side boundary fence.

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This proposal follows on from a previous and earlier application and permit issued (PLN-17-613) for internal and external changes including the reconfiguration of rooms and connections between rooms and the introduction of new elements. Since that permit was issued, the property has changed hands and some of the already approved changes have not proceeded. A number of conditions were included in the permit issued. HER s3 and HER s4 must be included on any permit issued.

This application has some minor demolition, but the vast majority of the application is for new work, a new front fence, a large rear extension for a new kitchen, 4 car garage, gym, store and the enclosure of an existing/original verandah of the heritage part of the house. Also part of the application is a new rear vehicular gate and driveway, courtyard and minor landscaping, as well as the resurfacing of the front semi-circular driveway. It should be noted that the new kitchen which was relocated as part of the PLN-17-613 application is to be demolished and that room will be a TV room.

The following provisions of the Historic Heritage Code of the Scheme apply; E13.7.1 P1 - demolition and E13.7.2 P1, P2, P3, P4 and P5 - new work - extension and front fencing.

Clause E13.7.1 P1 states:

Demolition must not result in the loss of significant fabric, form, items, outbuildings or landscape elements that contribute to the historic cultural heritage significance of the place unless all of the following are satisfied;

(a) there are, environmental, social, economic or safety reasons of greater value to the community than the historic cultural heritage values of the place;

(b) there are no prudent and feasible alternatives;

(c) important structural or façade elements that can feasibly be retained and reused in a new structure, are to be retained;
(d) significant fabric is documented before demolition.

Assessment:

Demolition involves the 2018 kitchen, the external south-east wall of the existing dining room, the timber paling boundary fence (installed in 2018), stone retaining walls, steps, concrete retaining wall (to remnants of rear tennis court) and rear elements of landscaping including trees.

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The proposed demolition relates to what was a glazed flower room or conservatory, which was converted to a kitchen and more recently as a dining room. Demolition is proposed to remove the wall shown in the above image to allow for connection through to the new kitchen and garage wing and will involve the removal of brick, sandstone and glazing. Although there is no concern about the removal of the sandstone as this is later infill from the post Allport era the demolition of the brick is unfortunate, particularly given the intact state of the house as a self-contained large house with no accretions or additions. As a particular large house to start with, it is difficult as such to conceive that any addition is required. However, this application must be assessed against the relevant provisions and determine if the demolition results in the loss of heritage values. In regard to the location of the proposed demolition, it is to the rear elevation, part of the functional, rather than dress circle part of the house which is potentially the most logical or rational location for a connection to another building/extension should one be needed. The retention of the character of red ochre and black tuck pointing brick work is considered appropriate. It is considered that a condition of permit be included to ensure that its original wall finishes and details are retained.

The remnant concrete foundations of the tennis court and other sandstone elements of walls and steps will be demolished to make way for the large extension to the rear. The tennis court has been subsumed by the the creation of the Cedar Court cul-de-sac subdivision and and subsequent new house at 9 Cedar Court. Other sandstone features in the garden are from the era of the house but its positioning and the techniques employed suggest that it has been repositioned over the course of the last sixty years. It is recommended that all sandstone and red brick from the demolished low retaining wall at the rear, remain on site and be reused in landscaping. This can be achieved by a condition of permit.

New work

The new work includes:

new single storey extension and addition to the south east of the original house, built over two levels for a four car garage, kitchen, mud room, swimming pool, store and gym etc, associated vehicle hard stand and gates and driveway and footpath. new skylight within the verandah to the south west part of the

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original house. new front fence and side fence

The new proposal must be assessed against the following clauses:

E13.7.2 P1

Development must not result in any of the following: (a) loss of historic cultural heritage significance to the place through incompatible design, including in height, scale, bulk, form, fenestration, siting, materials, colours and finishes; (b) substantial diminution of the historic cultural heritage significance of the place through loss of significant streetscape elements including plants, trees, fences, walls, paths, outbuildings and other items that contribute to the significance of the place.

E13.7.2 P2

Development must be designed to be subservient and complementary to the place through characteristics including: (a) scale and bulk, materials, built form and fenestration; (b) setback from frontage;

(c) siting with respect to buildings, structures and listed elements;(d) using less dominant materials and colours.

E13.7.2 P3

Materials, built form and fenestration must respond to the dominant heritage characteristics of the place, but any new fabric should be readily identifiable as such.

E13.7.2 P5

New front fences and gates must be sympathetic in design, (including height, form, scale and materials), to the style, period and characteristics of the building to which they belong.

Assessment:

The proposed front fence is a stucco and painted finished brick pier with a wrought iron infill sections that take their design cues from the existing metal gates which are being relocated to the north elevation. The colour of the paint is described as 'calf skin' a light-mid brown grey colour, no doubt chosen to tie in with the new colour scheme to the house. The fence piers have a maximum height of approximately 2.3 metres and minimum of 1.8 metres around the full extent of the proposed fence. The plinth has a height of approximately 0.3 metres. As such, the fence does not

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follow the convention of a lower fence at the front allowing the house to be shown off to its full advantage in a traditional fashion. In this instance, the proposed fence is considered too high for the setting although the proposed design, which takes its cues from the existing metal gate, is a valid approach. It is appropriate for a condition of permit to reduce the height of the piers on the front fence as shown in the west elevation and north elevation to 1.5 metres. This can be achieved as a condition of permit.

The existing semi-circular driveway is being retained, and while the existing plans indicate that this driveway will not be used for parking, the proposed configuration indicates that it will still remain as such. The only change is the resurfacing of the semi-circular driveway from pavers to asphalt and concrete to the rear. A condition of permit to specify the colour of the concrete to the rear is appropriate.

The extension to the rear, although large in footprint, is separated by a recess allowing the corner window of the existing dining room to remain. The garage and kitchen extension is over two levels, the garage sited higher on the 'tennis court' level. Both are boxlike and finished in stucco and painted brickwork and red brick with white steel window frames. This approach is typical of the output of this designers in that there is the production of a contemporary, minimalist and sleek modern product. In this regard it does not seek to emulate or replicate the exuberant architecture of the Gables.

The proposal shows a limestone strip separating the original rear verandah and the new courtyard. This is acceptable, but greater clarity is required to ensure that the step up to the verandah remains. This can be achieved by a condition of permit.

The proposal with appropriate conditions of permit satisfies the above provisions of the Historic Heritage Code of the Scheme.

6.12.6 The proposal complies with the performance criteria, subject to the nominated conditions.

7. Discussion

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- 7.1 Planning approval is sought for Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works, at 1-7 Cedar Court, Sandy Bay.
- 7.2 The application was advertised and no representations were received.
- 7.3 The proposal has been assessed against the relevant provisions of the planning scheme and is considered to perform well.
- 7.4 The proposal has been assessed by other Council officers, including the Council's Development Engineer, Cultural Heritage Officer, Roads Engineer, and Stormwater Engineer. The officers have raised no objection to the proposal, subject to conditions.
- 7.5 The proposal has been referred to TasWater and Heritage Tasmania, both of whom have provided advice and conditions to be included should a permit issue for the works.
- 7.6 The proposal is recommended for approval.

8. Conclusion

8.1 The proposed Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works, at 1-7 Cedar Court, Sandy Bay satisfies the relevant provisions of the *Hobart Interim Planning Scheme 2015*, and as such is recommended for approval.

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9. Recommendations

That: Pursuant to the *Hobart Interim Planning Scheme 2015*, the City Planning Committee, in accordance with the delegations contained in its terms of reference, approve the application for Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works, at 1-7 Cedar Court, Sandy Bay for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-388 - 1-7 CEDAR COURT SANDY BAY TAS 7005 - Final Planning Documents, except where modified below.

Reason for condition

To clarify the scope of the permit.

тw

The use and/or development must comply with the requirements of TasWater as detailed in the form Submission to Planning Authority Notice, Reference No. TWDA 2021/01237-HCC dated 27/7/2021 as attached to the permit.

Reason for condition

To clarify the scope of the permit.

тнс

The use and/or development must comply with the requirements of the Tasmanian Heritage Council as detailed in the Notice of Heritage Decision, THC Works Ref: 6640 dated 10 January 2022, as attached to the permit.

Reason for condition

To clarify the scope of the permit.

ENG sw1

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All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice: Under section 23 of the Urban Drainage Act 2013 it is an offence for a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

SW 9

Prior to occupancy or the commencement of the approved use (whichever occurs first), stormwater detention for stormwater discharges from the development must be installed.

A stormwater management report and design must be submitted and approved prior to the issue of any approval under the *Building Act 2016* or the commencement of work on the site (whichever occurs first). The stormwater management report and design must be prepared by a suitably qualified engineer and must:

- 1. include detailed design and supporting calculations of the detention tank showing:
 - 1. detention tank sizing such that there is no increase in flows from the developed site up to 5% AEP event and no worsening of flooding;
 - 2. the layout, the inlet and outlet (including long section), outlet size, overflow mechanism and invert level;
 - 3. the discharge rates and emptying times; and
 - 4. all assumptions must be clearly stated;
- 2. include a supporting maintenance plan, which specifies the required maintenance measures to check and ensure the ongoing effective operation of all systems, such as: inspection frequency; cleanout procedures; descriptions and diagrams of how the installed systems

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operate; details of the life of assets and replacement requirements.

All work required by this condition must be undertaken and maintained in accordance with the approved stormwater management report and design.

ENG 2a

Prior to first occupation or commencement of use (whichever occurs first), vehicular barriers compliant with the Australian Standard AS/NZS 1170.1:2002 must be installed to prevent vehicles running off the edge of a parking area(s), where the drop from the edge of the area to a lower level is 600mm or greater, and physical controls (i.e. wheel stops, kerbing) must be installed for drops between 150mm and 600mm. All physical controls installed shall not introduce an increase in detriment to users (e.g. limit the approved parking area dimensions).

Reason for condition

To ensure the safety of users of the access driveway and parking module and compliance with the standard.

ENG 3b

Detailed designs of the proposed parking area(s) must be submitted and approved via the City's condition endorsement process, prior to the issuing of any approval under the *Building Act 2016* or commencement of work (whichever occurs first).

The detailed designs must:

- 1. be substantially in accordance with the advertised plans
- 2. show dimensions, levels, gradients & transitions
- 3. show any excavations such as gate posts, retaining walls to be contained wholly within the property boundary without impacting the size or functionality of the access or turning area.
- 4. show retaining structures be adequately drained
- 5. be in accordance with the Australian Standard AS/NZS2890.1:2004, where possible;
- 6. where the driveway/access/ turning area deviate from the Australian Standards be prepared by a suitably qualified engineer.

The parking area must be constructed in accordance with the approved detailed designs, prior to first occupation or commencement of use

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(whichever occurs first).

Reason for condition

To ensure the safety of users of the access and parking module, and compliance with the relevant Australian Standard.

ENG 4

Prior to first occupation or commencement of use (whichever occurs first), the access driveways and parking areas approved by this permit must be constructed to a sealed standard (spray seal, asphalt, concrete, impervious paving, or Council approved equivalent) and surface drained to the City's stormwater infrastructure.

Reason for condition

To ensure the safety of users of the access driveway and parking module, and that it does not detract from the amenity of users, adjoining occupiers or the environment by preventing dust, mud and sediment transport.

ENG 5

The number of car parking bays approved for use on site must be in accordance with those shown on the design drawings approved by Condition ENG 3b.

Reason for condition

To ensure the provision of parking for the use is safe and efficient.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

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A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENG r3

Prior to first occupation or commencement of use (whichever occurs first), the proposed access driveway (i.e. vehicular crossing, including crossover) on the Cedar Court highway reservation must be designed and constructed in accordance with:

- Urban TSD-R09-v3 Urban Roads Driveways and TSD R14-v3 Type KC vehicular crossing;
- Footpath Urban Roads Footpaths TSD-R11-v3, reinforced concrete footpath.

Design drawings must be submitted and approved as a Condition Endorsement prior to any approval under the Building Act 2016. The design drawings must:

- 1. Show the cross and long section of the driveway crossover within the highway reservation and onto the property for the new crossover at the head;
- 2. Detail any services or infrastructure (ie light poles, pits, awnings) at or near the proposed driveway crossover;
- 3. Show swept path templates in accordance with AS/NZS 2890.1 2004 B85 design template;
- 4. If the design deviates from the requirements of the TSD, then demonstrate that a B85 vehicle can access the driveway from the road pavement into the property without scraping the vehicle's underside;
- 5. Show that vehicular and pedestrian sight lines are met as per AS/NZS

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2890.1 2004.

6. Be prepared and certified by a suitable qualified person, to satisfy the above requirements.

All work required by this condition must be undertaken in accordance with the approved drawings.

Advice:

- This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.
- Please note that your proposal does not include adjustment of footpath levels. Any adjustment to footpath levels necessary to suit the design of proposed floor, parking module or driveway levels will require separate agreement from Council's Road Services Engineer and may require further planning approvals. It is advised to place a note to this affect on construction drawings for the site and/or other relevant engineering drawings to ensure that contractors are made aware of this requirement.

Reason for condition

To ensure that works will comply with the Council's standard requirements.

ENV 2

Sediment and erosion control measures, in accordance with an approved soil and water management plan (SWMP), must be installed prior to the commencement of work and maintained until such time as all disturbed areas have been stabilised and/or restored or sealed to the Council's satisfaction.

A SWMP must be submitted as a Condition Endorsement prior to the issue of any approval under the *Building Act 2016* or the commencement of work, whichever occurs first. The SWMP must be prepared in accordance with the Soil and Water Management on Building and Construction Sites fact sheets (Derwent Estuary Program, 2008), available here.

All work required by this condition must be undertaken in accordance with the approved SWMP.

Advice: This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for Condition

To avoid the pollution and sedimentation of roads, drains and natural watercourses

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that could be caused by erosion and runoff from the development.

HER 9

All sandstone and red bricks from the demolition must not be disposed of and must be retained on site and reused in landscaping.

Prior to the issue of any approval under the *Building Act 2016*, revised plans must be submitted and approved as a Condition Endorsement showing the retention and reuse of all sandstone and red bricks in accordance with the above requirement.

All work required by this condition must be undertaken in accordance with the approved revised plans.

Advice: This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that demolition in whole or part of a heritage place does not result in the loss of historic cultural heritage values.

HER 10

The ground levels of the new court finished in SS1 and the strip of crushed limestone must be below the face to the timber verandah on the south east elevation as shown on drawing A02-00. The existing step must be retained with no increase in ground levels.

Prior to the issue of any approval under the *Building Act 2016*, revised plans must be submitted and approved as a Condition Endorsement showing the required ground levels in accordance with the above requirement.

All work required by this condition must be undertaken in accordance with the approved revised plans.

Advice: This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that work in whole or part of a heritage place does not result in the loss of

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historic cultural heritage values.

HER 11

The new exposed aggregate concrete driveway shown on drawing A02-00 and A02-03 must be of a muted design, colour and finish and be sympathetic to the heritage values of the heritage listed place.

Prior to the issue of any approval under the *Building Act 2016*, revised plans must be submitted and approved showing details of the colour and finish of the driveway in accordance with the above requirements.

All work required by this condition must be undertaken in accordance with the approved revised plans.

Reason for condition

To ensure that development in a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

HER 16

The front fence (including both the stucco brick piers and the wrought iron infill panels) along the eastern boundary, from the 'existing store' to the north western corner of the site, must be no more than 1.5m in height above natural ground level, with the wrought iron infill no less than 74% transparent.

The remaining front fence must not exceed the height shown on the approved plans, but may be reduced to match the above requirement if desired.

Prior to the issue of any approval under the Building Act 2016, revised plans must be submitted and approved as a Condition Endorsement showing the front fence in accordance with the above requirement.

Advice: This condition requires further information to be submitted as a Condition Endorsement. Refer to the Condition Endorsement advice at the end of this permit.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance, and to provide reasonable opportunity for privacy for dwellings whilst maintaining the streetscape.

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HER 17c

The external colours, materials and finishes of the approved development must be substantially in accordance with the approved plans. Any substantial change in the colours, materials and finishes requires further approval.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause loss of historic cultural heritage significance.

HER s3

The red ochre and black truck pointing within the existing dining room (originally the flower room/conservatory) must be retained and must not be painted or covered in a plaster finish. Any painted or plastered finishes revealed during demolition must be repaired and reinstated to original condition.

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not cause the loss of historic heritage values.

HER s4

All building plans submitted for approval under the *Building Act 2016* must include a notation with the following wording:

"This house is a very significant house and is heritage listed in the Heritage Code of the Hobart Interim Planning Scheme 2015. The works are not normal building work and care is to be taken to protect historic fabric from damage during construction or to remove original materials and construction unless part of the approved plans. There are specific heritage conditions on the permit issued requiring the retention of original fabric. If in doubt, seek specialist advice before taking action. Every effort should be made to protect existing building fabric and structural elements into the new construction where the new construction will be visible."

Reason for condition

To ensure that development at a heritage place is undertaken in a sympathetic manner which does not result in the loss of historic heritage values.

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ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

CONDITION ENDORSEMENT

If any condition requires that further documents are submitted and approved, you will need to submit the relevant documentation to satisfy the condition via the Condition Endorsement Submission on Council's online services e-planning portal. Detailed instructions can be found here.

A fee of 2% of the value of the works for new public assets (stormwater infrastructure, roads and related assets) will apply for the condition endorsement application.

Once approved, the Council will respond to you via email that the condition has been endorsed (satisfied).

Where building approval is also required, it is recommended that documentation for condition endorsement be submitted well before submitting documentation for building approval. Failure to address condition endorsement requirements prior to submitting for building approval may result in unexpected delays.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016*. Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

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OCCUPATION OF THE PUBLIC HIGHWAY

You may require a permit for the occupation of the public highway for construction or special event (e.g. placement of skip bin, crane, scissor lift etc). Click here for more information.

You may require a Permit to Open Up and Temporarily Occupy a Highway (for work in the road reserve). Click here for more information.

STORM WATER

Please note that in addition to a building and/or plumbing permit, development must be in accordance with the Hobart City Council's Infrastructure By law. Click here for more information.

WORK WITHIN THE HIGHWAY RESERVATION

Please note development must be in accordance with the Hobart City Council's Infrastructure By law. Click here for more information.

DRIVEWAY SURFACING OVER HIGHWAY RESERVATION

If a coloured or textured surface is used for the driveway access within the Highway Reservation, the Council or other service provider will not match this on any reinstatement of the driveway access within the Highway Reservation required in the future.

REDUNDANT CROSSOVERS

Redundant crossovers are required to be reinstated under the Hobart City Council's Infrastructure By law. Click here for more information.

WORK PLACE HEALTH AND SAFETY

Appropriate occupational health and safety measures must be employed during the works to minimise direct human exposure to potentially-contaminated soil, water, dust and vapours. Click here for more information.

PROTECTING THE ENVIRONMENT

In accordance with the *Environmental Management and Pollution Control Act 1994*, local government has an obligation to "use its best endeavours to prevent or control acts or omissions which cause or are capable of causing pollution." Click here for

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more information.

LEVEL 1 ACTIVITIES

The activity conducted at the property is an environmentally relevant activity and a Level 1 Activity as defined under s.3 of the *Environmental Management and Pollution Control Act 1994.* For further information on what your responsibilities are, click here.

NOISE REGULATIONS

Click here for information with respect to noise nuisances in residential areas.

WASTE DISPOSAL

It is recommended that the developer liaise with the Council's Cleansing and Solid Waste Unit regarding reducing, reusing and recycling materials associated with demolition on the site to minimise solid waste being directed to landfill.

Further information regarding waste disposal can also be found on the Council's website.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

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(Helen Ayers) Development Appraisal Planner

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Keny

(Karen Abey) Manager Development Appraisal

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Date of Report: 13 January 2022

Attachment(s):

Attachment B - CPC Agenda Documents

Attachment C - Planning Referral Officer Report (Cultural Heritage Officer)

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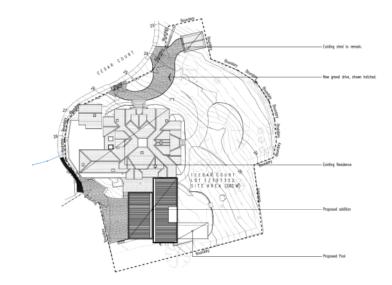
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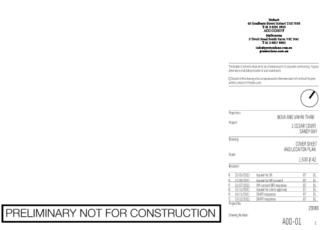
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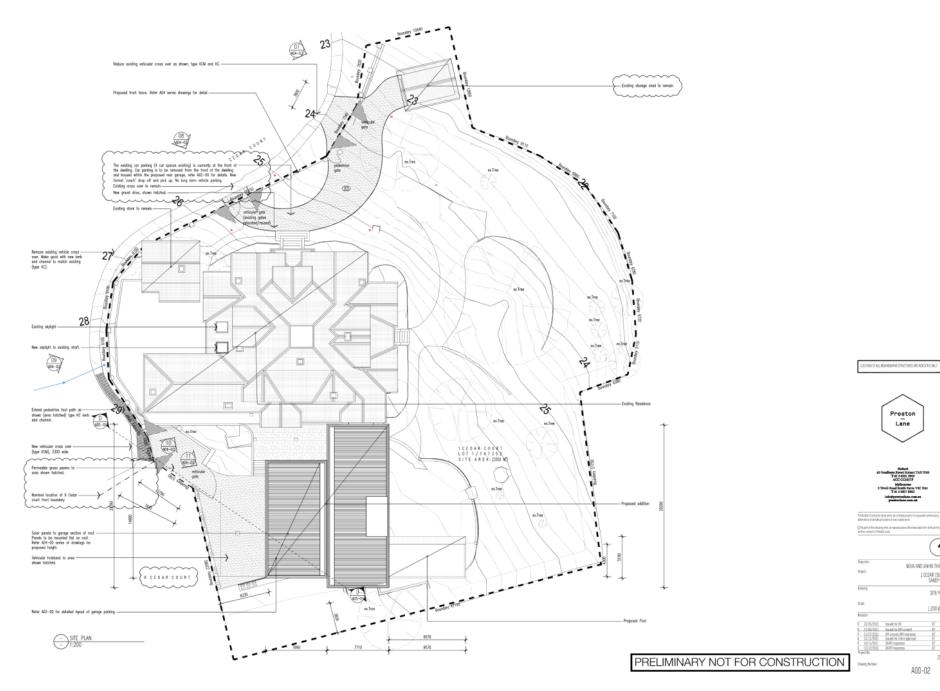
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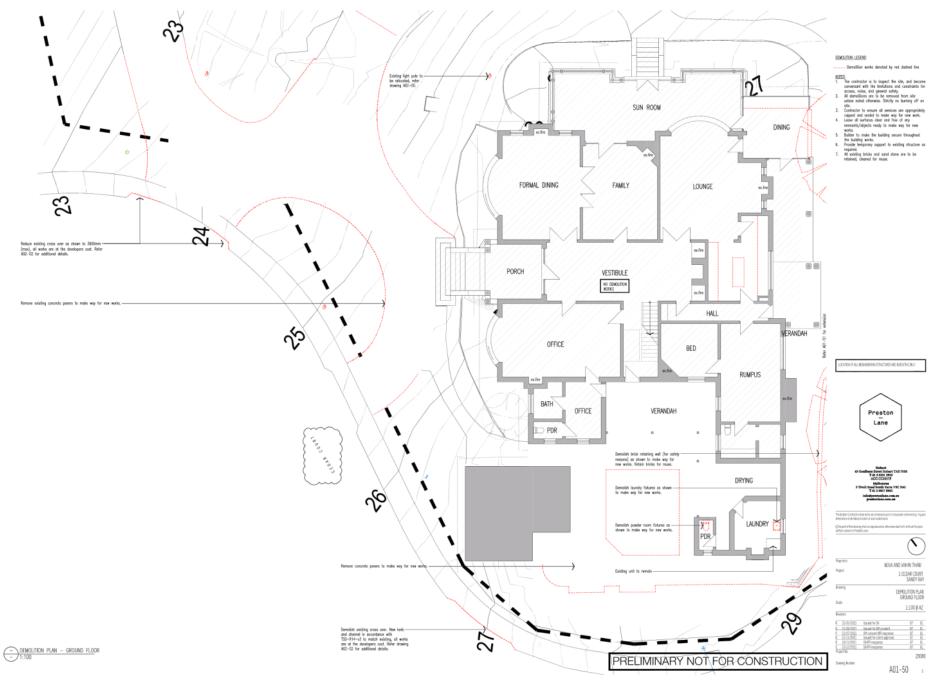
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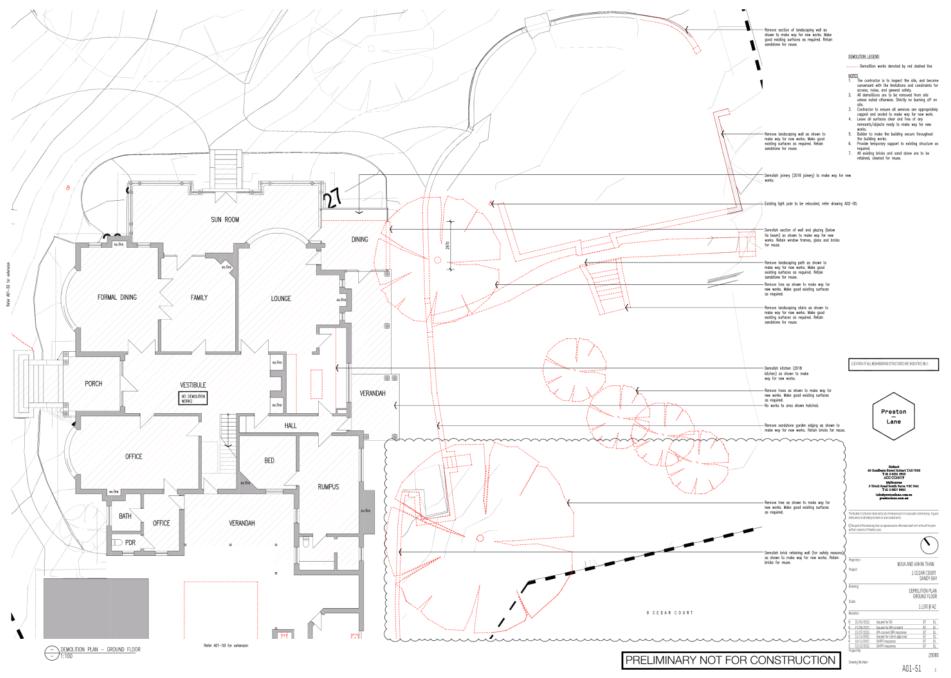
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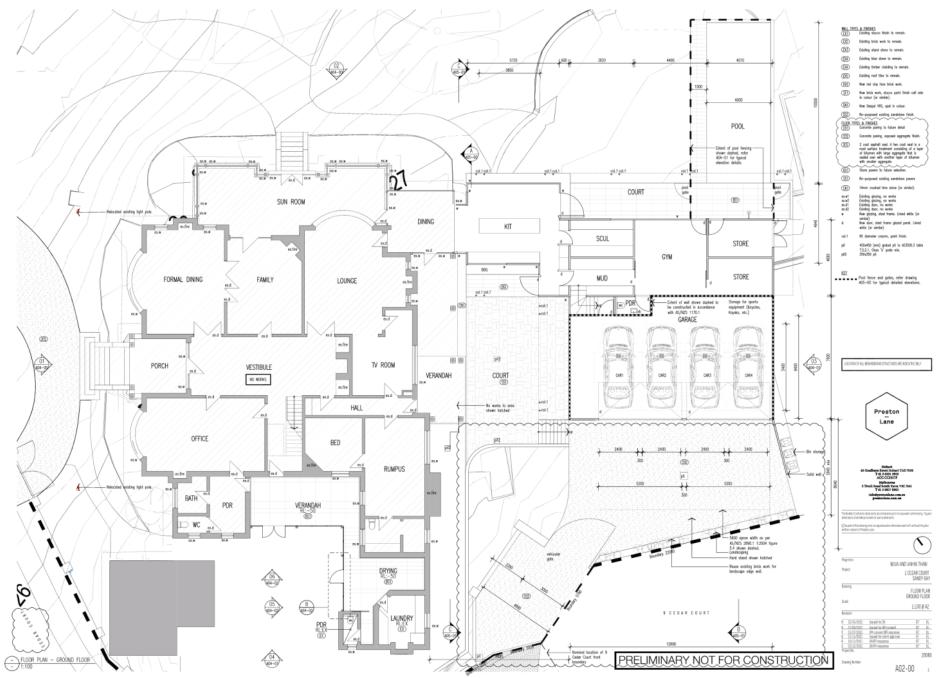
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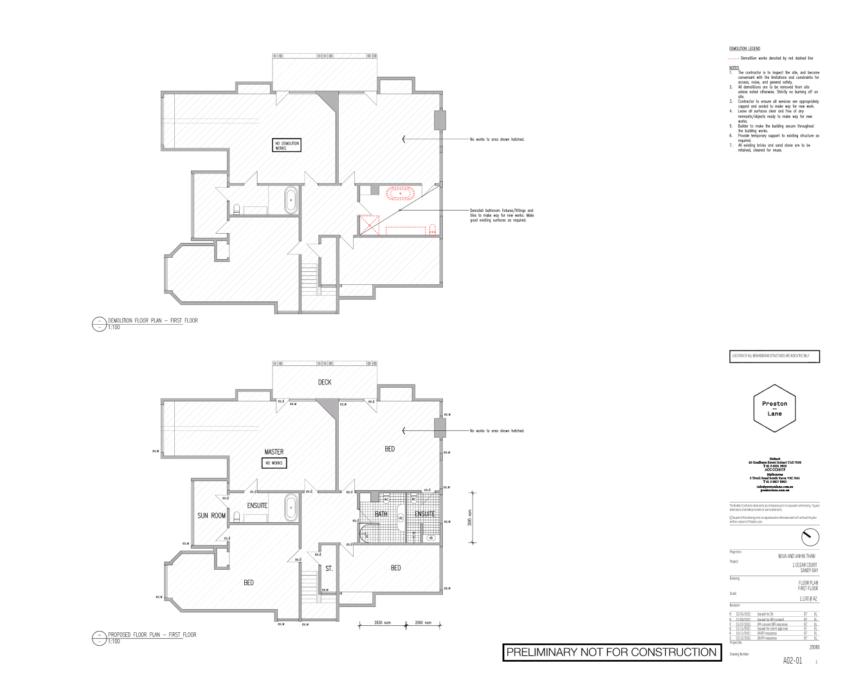
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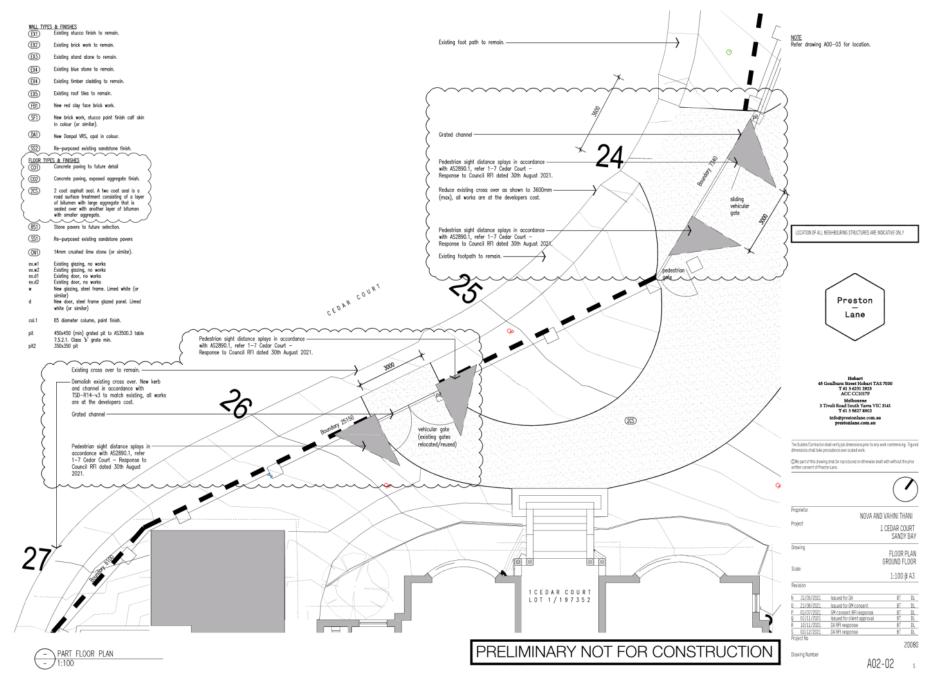
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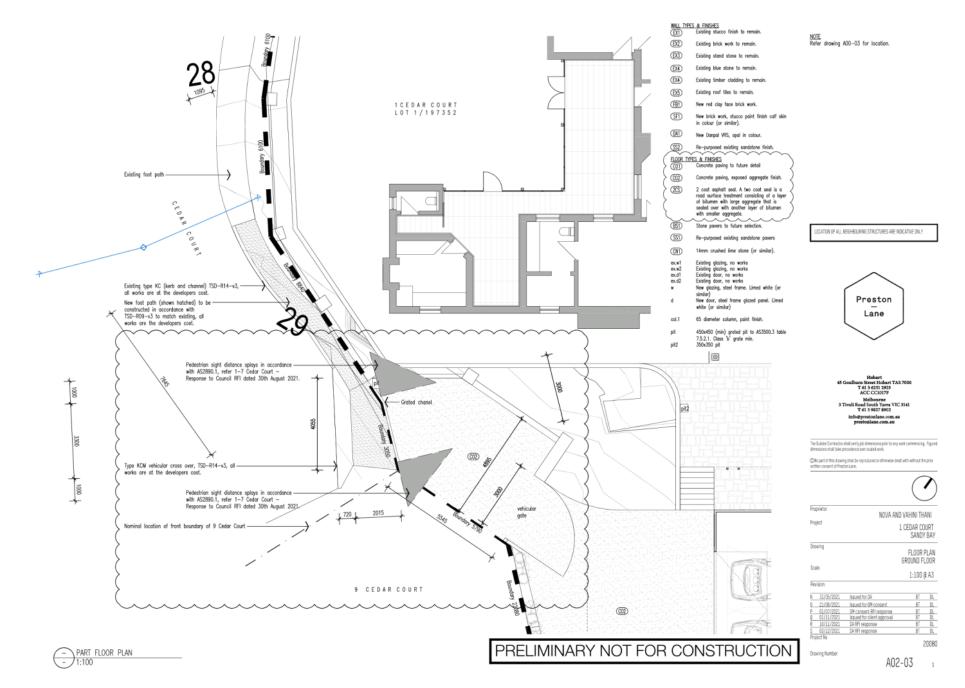
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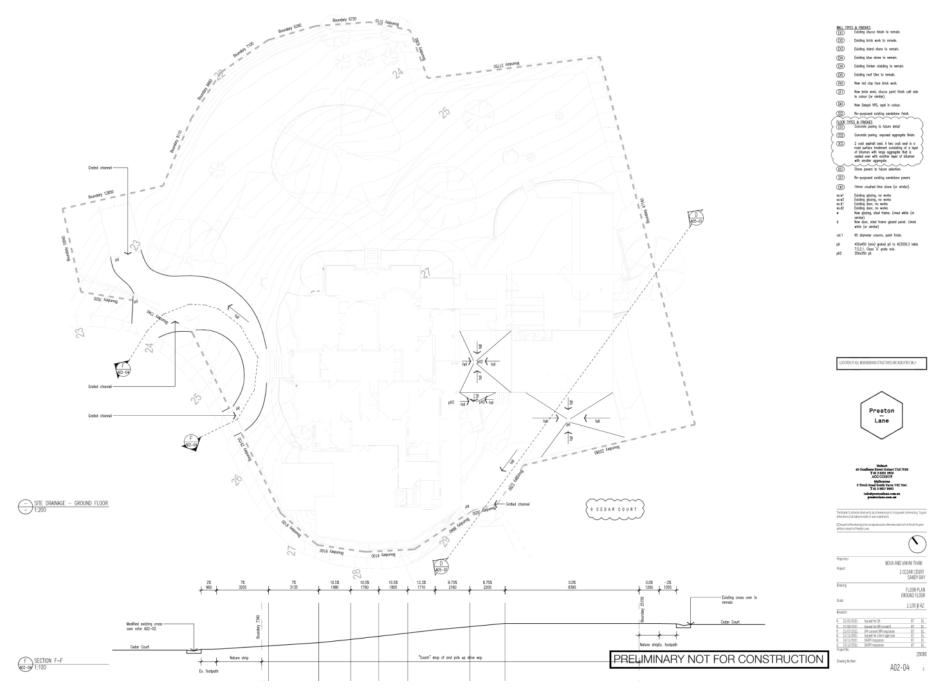
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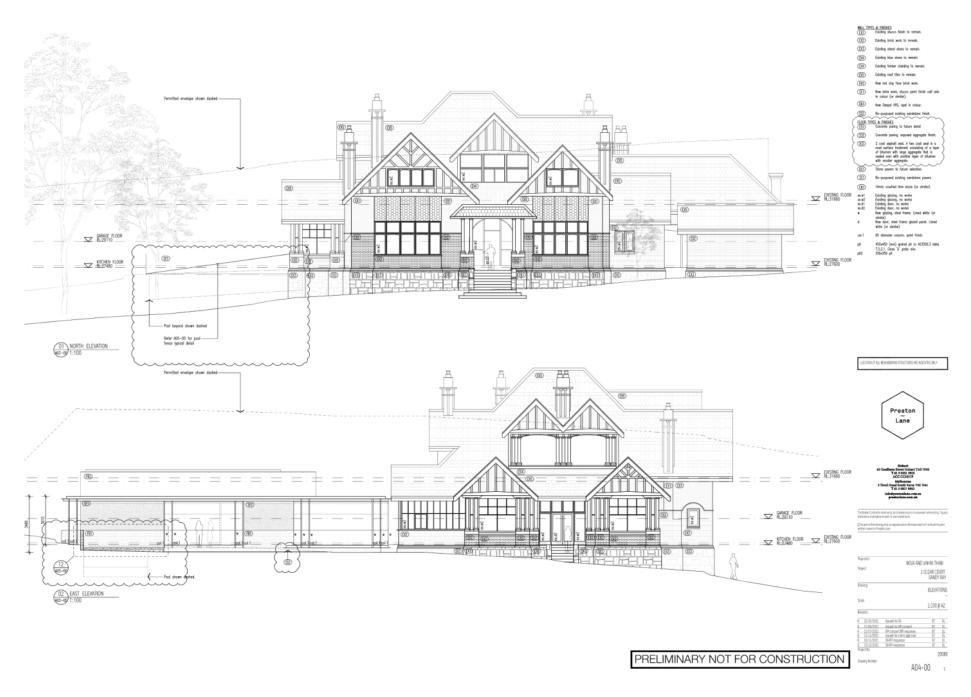
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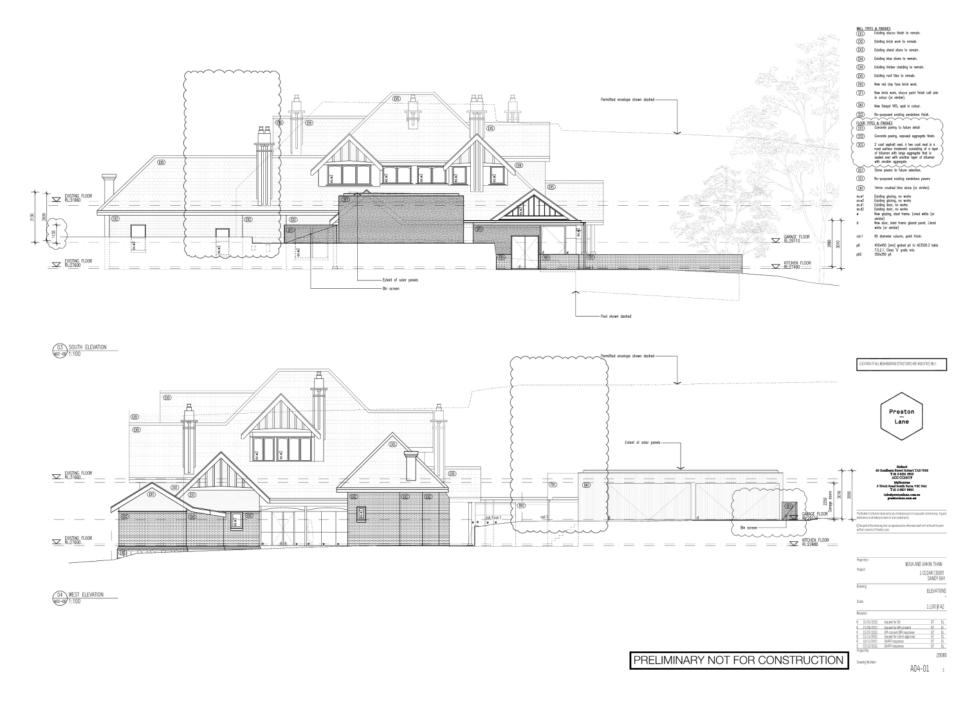


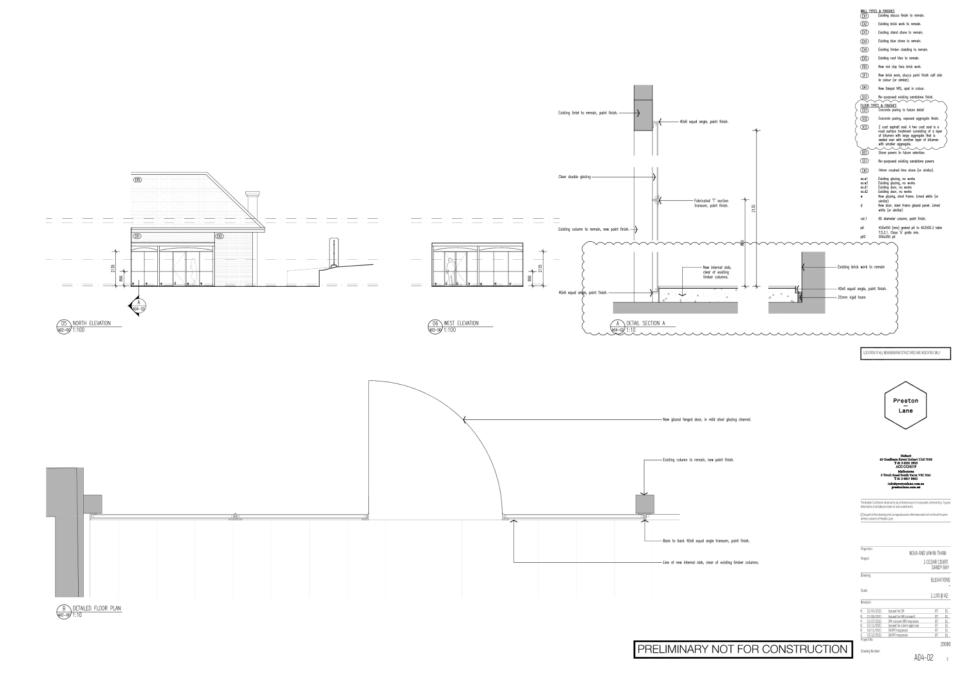
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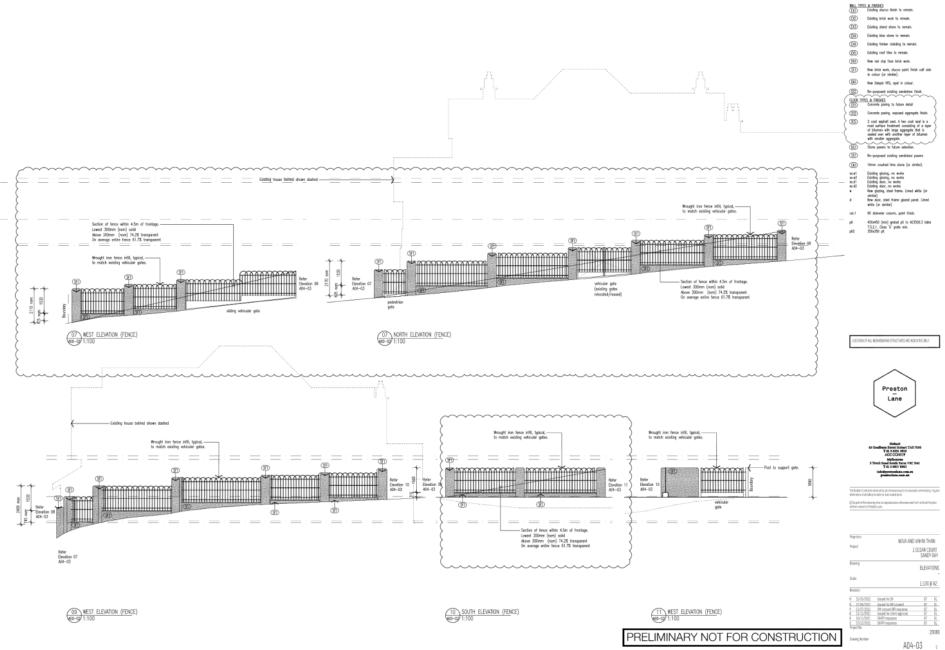




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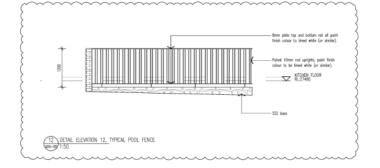


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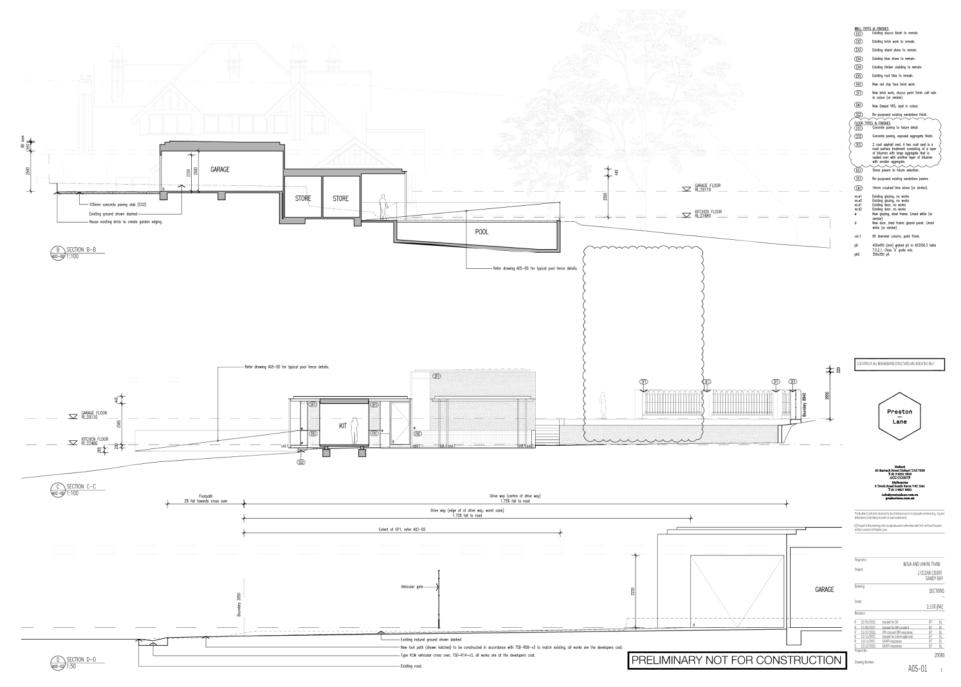
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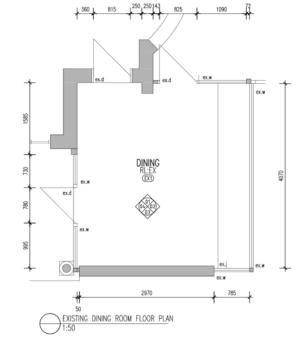


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-	A Pi EV.	ANNING APPROVAL 01/11/20 DESCRIPTION DATE	DESIGN: SL DESIGN CHECK: TW 021 CERTIFIER: TW		OANMARK	ADDRESS: 1 CEDAR COURT SANDY BAY TAS 7005	SUE PLANNING APPROVAL 0 1 2 3 4 5m	PROJECT NG.	TOTAL SHEETS: 9 A3 SHEET NO. H0.01 A

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HYDRAULIC SERVICES - GENERAL NOTES

- GENERAL NOTES: 1. THESE DRAWING ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, PROJECT CONTRACT AND SPECIFICATIONS STANDARDS REFERENCES ARE THE MOST RECENT VERSION. SEWER, STORMWATER AND WATER SERVICES SHALL BE IN ACCORDANCE WITH THE NCC VOL 3 (PCA), AS3500, WSAA
- CODES TASWATER AND TO LOCAL AUTHORITY APPROVAL IT IS ASSUMED THAT ADJACENT TO THE DEVELOPMENT SITE IS ADEQUATE INFRASTRUCTURE PROVIDED BY THE
- LOCAL AUTHORITY AND OTHER STATUTORY AUTHORITIES TO SUPPLY ROAD ACCESS, WATER AND POWER AS REQUIRED BY THIS DESIGN, AND THERE IS ADEQUATE INFRASTRUCTURE OR ENVIRONMENTAL CAPACITY TO RECEIVE STORMWATER AND SEWERAGE DRAINAGE. PARTICULAR ASSUMPTIONS ARE DESCRIBED IN THE FOLLOWING SECTIONS
- THE LOCATION OF EXISTING SERVICES AND CONNECTION POINTS WHERE SHOWN ON PLANS ARE APPROXIMATE 4. ONLY AND SHALL BE CONFIRMED ON SITE. FOLLOWING AGREEMENT WITH THE SUPERINTENDANT, TERMINATE AND ABANDON REDUNDANT EXISTING SERVICES
- 5 DISCOVERED DURING CONSTRUCTION AND MAKE A NOTE ON AS-CONSTRUCTED DRAWING.
- LOCATE ALL EXISTING GAS, ELECTRICAL, TELECOMMUNICATIONS, WATER MAINS, SEWER MAINS AND STORMWATER MAINS ETC. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND ADVISE THE SUPERINTENDANT OF ANYTHING THAT APPEARS NOT BE HAVE BEEN CONSIDERED IN THE DESIGN. CONFIRM ALL LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORKS
- HYDRAULIC LAYOUT O BE CORDINATED WITH OTHER SERVICES. HYDRAULIC LAYOUT AS SHOWN IS NOTIONAL LAYOUT TO BE CONFIRMED ON SITE.
- 9 THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT A VALID BUILDING AND PLUMBING PERMIT AND START WORKS NOTICE IS IN PLACE FOR THE WORK AND THAT THE BUILDING SURVEYOR IS NOTIFIED OF ALL SITE INSPECTION REQUESTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED BY HIS SUB-CONTRACTORS, ANY SERVICE DAMAGED IS TO BE REINSTATED IMMEDIATELY.
- ON COMPLETION OF WORKS PROVIDE THREE SETS OF AS CONSTRUCTED DRAWINGS AND SERVICE MANUALS ALONG WITH ELECTRONIC DRAWING FILES IN POF AND DWG FORMATS SUITABLE FOR READING WITH A RECENT VERSION OF 11. ADOBE/AUTOCAD TO THE SUPERINTENDANT. THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING ALL SITE INSPECTIONS AND OBSERVING ALL HOLD POINTS
- 12 NOMINATED WITHIN THE CONTRACT, BY THE BUILDING SURVEYOR OR PLUMBING SURVEYOR. NOMINAL DIAMETERS FOR PIPES (DN) REFER TO THE INSIDE DIAMETER (D BORE)
- CONCEAL ALL PIPEWORK IN CEILING SPACE, DUCTS, CAVITIES, WALL CHASES, CUPBOARDS ETC. UNLESS OTHERWISE
- APPROVED. THE CONTRACTOR SHALL ALLOW TO COORDINATE WITH MECHANICAL AND REFRIDGERATION SERVICES AND 15. PROVIDE TUNDISHES CONNECTED TO SEWER OR STORMWATER AS APPROPRIATE TO ALL CONDENSATE DRAINAGE AND RELIEF VALVES. ALLOW TO PROVIDE AND INSTALL MAG IN-WALL TUNDISHES WITH STAINLESS STEEL COVER WINDOW (SUPPLIED BY MA GRIFFITH) OR EQUAL APPROVED TYPE. TRENCHING FOR FLEXIBLE PIPEWORK SHALL BE IN ACCORDANCE WITH AS2566 AND AS3500
- 16. 17.
- ALL PIPEWORK UNDER TRAFFICABLE AREAS, SLABS OR PAVEMENTS IS TO BE FULLY BACKFILLED WITH COMPACTED

STORMWATER NOTES

- STORMWATER PIPE INFRASTRUCTURE HAS BEEN DESIGNED TO CONVEY A 20 YEAR ANNUAL EXCEEDANCE POSSIBILITY (5% AEP) AT A 5 MINUTE STORM DURATION, WITH OVERLAND FLOW PATHS PROVIDED FOR 1:100 YEAR ANNUAL EXCEEDANCE PROBABILITY (1% AEP). IT IS ASSUMED THAT THE DOWNSTREAM INFRASTRUCTURE AND/OR ENVIRONMENT CAN SAFELY RECEIVE THE 5% AEP EVENT WITH A 5 MINUTE STORM DURATION
- ALL MATERIALS AND WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH AS3500, NCC VOL 3 (PCA). 2 COUNCIL STANDARD DRAWINGS AND SPECIFICATION AND TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT ENGINEER.
- ALL PIPEWORK SHALL BE MINIMUM DN100 DWV SN6 AT 1:100 GRADE (1.00%) UNLESS NOMINATED OTHERWISE ON PLANS
- MINIMUM GRADE OF PAVED AREAS AND PIPEWORK SHALL BE 1 IN 100 UNLESS NOTED OTHERWISE.
- INSTALL ALL AG DRAINS TO THE REQUIREMENTS OF AS3500 AND THE NCC PROVIDE INSPECTION OPENINGS TO ALL DRAINAGE PIPEWORK IN ACCORDANCE WITH AS3500
- REQUIREMENTS EVEN IF NOT SHOWN IN DRAWINGS
- PIPE AND CHANNEL INFRASTRUCTURE HAS BEEN DESIGNED TO CONVEY 20 YEAR ANNUAL EXCEEDANCE POSSIBILITY (5% AEP) STORMS, WITH OVERLAND FLOW PATHS PROVIDED FOR 1% AEP STORMS. IT IS ASSUMED THAT WATER FLOWING ONTO THE DEVELOPMENT SITE IS CONTAINED WITHIN LOCAL AUTHORITY INFRASTRUCTURE FOR 5% AEP STORMS AND THE ROAD RESERVE FOR 1% AEP STORMS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY'S BY-LAWS AND AS/NZ\$3500 9.
- STORMWATER TRENCHES, PIPE BEDDING AND BACK FILLING TO COMPLY WITH THE CONCRETE PIPE ASSOCIATION OF AUSTRALIA INSTALLATION REQUIREMENTS FOR TYPE HS2 SUPPORT
- BELOW GROUND PIPEWORK AND FITTINGS TO BE DWV SN6. JOINTS SHALL BE OF SOLVENT CEMENT 10 TYPE OR FLEXIBLE JOINTS MADE WITH APPROVED RUBBER RINGS.
- 11 PIPEWORK SHALL BE LAID IN POSITION AND AT THE GRADES SHOWN
- 12. MINIMUM GRADE OF PIPEWORK SHALL BE 1 IN 100 UNLESS NOTED OTHERWISE (U.N.O.).
- 13 MINIMUM SIZE OF PIPEWORK SHALL BE DN100.
- 14. SURFACE WATER DRAINS, CATCHPITS/GRATED PITS, AND JUNCTION BOXES SHALL BE CONSTRUCTED AS DETAILED OR AS SPECIFIED BY THE MANUFACTURER.
- 15. ALL MANHOLES TO BE LOCATED CLEAR OF FUTURE FENCELINES

- SEVER NOTES ALL MATERIALS AND WORK IS TO BE CARRED OUT IN ACCORDANCE WITH ASS500, NCC VOL 3 (PCA), TASMANIAN APPENDIX OF THE NCC VOL 3 (PCA), COUNCIL STANDARD DRAWINGS AND SPECIFICATION AND DRAWING AND SPECIFICATION AND AND SPECIFICATION AND SPECIFICATION AND SPEC TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT ENGINEER. CONFIRM THE LOCATION AND LEVEL OF THE NOMINATED OUTLET PRIOR TO TRENCH EXCAVATION OF
- LAVING OF ANY DRAINS. ASCERTAIN FROM TASWATER ALL NECESSARY CONNECTION REQUIREMENTS AND INSTALL ALL WORK FOR CONNECTION IN ACCORDANCE WITH THESE REQUIREMENTS. SEWER TRENCHES PIPE BEDDING AND BACK FILLING TO COMPLY WITH A\$2565.8 A\$3500.2
- ALL PIEWORK SHALL BE ADEQUATELY SUPPORTED TO AS3300. PIEWORK SHALL BE ADEQUATELY SUPPORTED TO AS3300. BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE (HDPE) OR COPPER TYPE 'B. PIPEWORK SHALL HAVE BE MINIMUM CLASS SN6 UNLESS NOMINATED OTHERWISE ON PLANS
- PIPEWORK SHALL BE PRESSURE TESTED PROGRESSIVELY TO ENSURE NO LEAKS. ALL PIPEWORK SHALL BE CONCEALED IN WALLS, VOID SPACE OR DUCTS UNLESS NOTED OTHERWISE
- MINIMUM GRADE OF PIPEWORK SHALL BE 1:40 FOR BRANCHES AND 1 IN 60 FOR DRAINS UNLESS NOTED
- MINIMUM SIZE OF BRANCH DN65 AND MINIMUM SIZE OF DRAINS SHALL BE DN100. WHERE FLOOR WASTE GULLES ARE INDICATED, THE FLOORS SHALL BE GRADED TOWARDS THE OUTLET. FLOOR WASTE GULLES CONNECTED TO LAUNDRY FIXTURES SHALL BE ANTI-FOAM TYPE.
- ALL FITTINGS TO BE ISOLATED BY AN APPROVED TRAP PRIOR TO CONNECTION TO THE SEWER LINE. PROVIDE AIR ADMITTANCE VALVES AND ATMOSPHERIC VENTS IN ACCORDANCE WITH AS3500 RECUREMENTS
- INSPECTION OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH AS3500
- ONE OVERFLOW RELIEF GULLY SHALL BE PROVIDED FOR THE SITE WHICH SHALL BE PRIMED BY AN 15
- EXTERNAL WATER SOURCE. WHERE PIPEWORK PENETRATES FIRE RATED WALLS OR FLOORS, A FIRE STOP COLLAR SHALL BE 16
- INSTALLED. ALL WORK SHALL BE STRICTLY INSTALLED TO THE MANUFACTURER'S RECOMMENDATIONS. NO SEWER CONNECTIONS SHALL BE MADE WITHIN RESTRICTED ZONES OF STACKS AS PER AS3500.
- INSTALL LONG RADIUS BENDS AT THE BASE OF ALL STACKS AS PER AS3500 AND INCLUDE ALL BRACKETS AND SUPPORTS

- WATER NOTES: 1. WATER SERVICES TO BE CONSTRUCTED IN ACCORDANCE WITH AS3500 PARTS 1 AND 4 AND TO THE SATISFACTION OF COUNCILS (OR TAS WATER FOR EXTERNAL) DEVELOPMENT ENGINEER
- ALL CONNECTIONS TO EXISTING MAINS TO BE CARRIED OUT BY TASWATER AT CONTRACTORS COST UNLESS NOMINATED OTHERWISE ON PLANS.

- NOMINALED UTHERWISE ON FLANS. GENERAL NETRALIS, INSTALLATION & TESTING SHALL COMPLY WITH AS3500 PARTS 1 AND 4. ALL COPPER PREWORK SHALL BE HARD DRAWIN TUBING TYPE IS CONFORMING TO AS 1432. AS AN ALTERANTIVE TO SILVER SOLDERED JOINTS, PRESS FITTED JOINTS MAY BE USED ALLOW TO USE THE VIEGA PROFILES SYSTEM WITH INSTALLATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS.
- ALL PIPEWORK SHALL BE CONCEALED WHERE POSSIBLE. WHERE PIPEWORK IS EXPOSED IT SHALL BE CHROME PLATED
- WHERE PIPEWORK IS IN CONTACT WITH DISSIMILAR METALS, THE METALS SHALL BE INSULATED AGAINST BI-METAL CORROSION
- MINIMUM COVER TO BE 750mm UNDER TRAFFICABLE AREAS; 600mm ELSEWHERE UNLESS NOMINATED OTHERWISE ON PLANS
- PROVIDE STOP VALVES AT ALL BRANCH OFFTAKES.
- ALL TRENCHES UNDER TRAFFICABLE AREAS, INCLUDING DRIVEWAYS, TO BE BACKFILLED WITH COMPACTED FCR. ELECTROMAGNETIC TRACKING TAPE TO BE PLACED OVER ALL TRENCHES CONTAINING WATER PIPES 50/20 OR 11
 - GREATER ABOVE HAUNCHING
- OR HIGHLORD VALVES SHALL BE POSITIONED IN APPROVED ACCESSIBLE LOCATIONS. VALVES LOCATED IN DUCTS OR WALLS SHALL BE POSITIONED BEHIND APPROVED TYPE ACCESS COVERS. 12
- 13 ALL SCREWED STOP VALVES SHALL HAVE UNION COUPLINGS AND BE ACCESSIBLE. GROUP VALVES WHEREVER
- POSSIBLE
- 14 ALL COPPER PIPEWORK SHALL BE HARD DRAWN TUBING TYPE 'B' CONFORMING TO AS 1432
- ALL POLYETHYLENE PIPEWORK SHALL BE PN16 PE100 CONFORMING TO AS \$130.
- THRUST BLOCKS SHALL BE INSTALLED AS REQUIRED BY WSAA AND AS3500
- HOT WATER TO BE STORED AT MINIMUM 60°C WITH TEMPERING DEVICE INSTALLED TO LIMIT OUTLET TEMPERATURE TO; 50°C TO ABLUTION AREAS, 60°C TO KITCHEN SINK, CLEANERS SINK AND LAUNDRY TROUGH AND TEMPERED TO 45°C WITH THERMOSTATIC MIXING VALVES IN DISABLED, CHILD CARE AND AGED CARE FACILITES TEMPERED, COLD WATER, HOT WATER PIPEWORK AND VALVES SHALL BE LAGGED AS PER ASINZS 3500.4 2018
- SECTION & FOR CLIMATE REGION B. HOT WATER CIRCULATING LINE TO BE LAGGED WITH SECTIONAL ROCKWOOL WITH FOIL OUTER COVER. EXTERNAL LAGGING TO BE UV PROTECTED, AND LAGGING EXPOSED TO MOISTURE NEEDS TO BE MOISTURE PROTECTED. SOLAR FLOW AND RETURN LAGGING SHOULD BE RATED FOR TEMPERATURES UP TO 150°C, OTHER LAGGING RATED TO 105°C. ALL LAGGING SHOULD BE FIRE RATED TO NCC REQUIREMENTS, PVC FREE, ZERO OZONE DEPLETING POTENTIAL, LOW VOLATILE ORGANIC COMPOUNDS. 19 ONE PRESSURE RELIEF VALVE SET TO 500 KPA SHALL BE PROVIDED TO ALL WATER PIPES AT THE POINT OF ENTRY
 - INTO A BUILDING
- HOSE BIB COCKS SHALL BE 500mm ABOVE FINISHED SUBFACE LEVEL AND SHALL BE 20mm IN SIZE U.N.O. AND 20 FITED WITH APPROVED VACUUM BREAKERS THE PLUMBER SHALL ARRANGE FOR ALL INSPECTIONS AND TISTING OF SERVICES REQUIRED BY THE LOCAL AUTHORITY PRIOR TO CONCEALMENT, PRESSURE TEST HOT AND COLD NATER SERVICES TO 1.5 TIMES NORMAL WORKING PRESSURE AND FIRE SERVICES TO 1700 KPA MINIMUM PRESSURE PRIOR TO CONNECTION TO EXISTING SERVICES, PUMP EQUIPMENT SHALL BE REMOVED WHILST TESTING IS CARRIED OUT
- ALL TEMPERING AND THERMOSTATIC MIXING VALVES SHALL BE EASILY LOCATED FOR SAFE OH&S ACCESS. FOLLOWING COMPLETION OF THE WORKS, FLUSH ALL PIPING SYSTEMS AND LEAVE FREE OF FOREION MATTER, CLEAN OUT AERATORS, STRAINERS, FLUERS, ETC., FLOW AND PRESSURE TEST ALL HYDRANTS AND HOSE REELS.

- BUILDING HYDRAULICS. 1. ALL MATERIALS AND WORKMANSHIP TO BE DONE IN ACCORDANCE WITH AS3500, NCC VOL 3 (PCA), TASMANIAN APPENDIX OF THE NCC VOL 3 (PCA) AND LOCAL AUTHORITY REQUIREMENTS.
- ALL DRAINAGE PIPEWORK SHALL BE DWV CLASS SN5 U.N.O., ALL WASTE AND VENT SHALL BE DWV CLASS PIPE. DURING CONSTRUCTION TEMPORARILY SEAL ALL OPEN ENDS OF PIPES AND VALVES TO PREVENT ENTRY OF FOREIGN MATTER, DO NOT USE RAGS, PAPER OR WOODEN PLUGS.
- SUPPLY AND INSTALL ALL FIXTURES, VALVES, TAPWARE AND SUNDRY ITEMS AS SCHEDULED WITHIN THE
- SPECIFICATION
- PROVIDE FIRE STOPS AS REQUIRED. CONTRACT DRAWINGS ARE DIAGRAMMATIC AND AS SUCH SHOW THE INTENT OF DESIGN. INSTALLATION TO BE AS PER ASIN2S3500. ALLOW FOR ALL BENDS, OFFSETS AND OTHER MEASURES AS NECESSARY TO AVOID INTERFERENCE WITH THE STRUCTURE AND/OR OTHER BUILDING SERVICES.
- REFER TO ARCHITECTS DEMOLITION PLAN FOR REMOVAL OF EXISTING FUTURES AND FITTINGS. THE REMOVAL OF EXISTING PLUMBING FIXTURES SHALL INCLUDE ALL ASSOCIATED WASTE AND VENT PIPES, FLOOR DRAINS, WATER SERVICE PIPEWORK BRACKETS, SUPPORTS, ETC AND SEAL OFF EXISTING SERVICES. SEAL OFF AND MAKE GOOD ALL FLOOR, WALL AND ROOF PENETRATIONS.
- THE LOCATION OF EXISTING SERVICES WHERE SHOWN ARE APPROXIMATE ONLY AND SHALL BE CONFIRMED ON SITE WHERE POSSIBLE, DETERMINE LOCATION OF EXISTING POWER, TELSTRA, WATER AND DRAINAGE SERVICES PRIOR TO COMMENCING NEW WORK.
- ALL PENETRATIONS THROUGH EXISTING SUSPENDED FLOOR SLABS SHALL BE DRILLED TO LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER. DRILL PILOT HOLE PRIOR TO CORE DRILLING TO ENSURE CLEARANCE OF BEAMS AND OTHER SERVICES IN SLAB. ALL PENETRATIONS SHALL BE CORE DRILLED TO SUIT PIPE SIZE. ALLOWANCE FOR 10 MIX CLEARANCES SHALL BE MADE FOR FIRE PROOFING. 10 MIX CLEARANCES SHALL BE MADE FOR FIRE PROOFING. REFER TO ARCHITECTURAL DRAWINGS FOR LICCATION OF FIRE AND SMOKE STOP WALLS. ALL PIPE
- PENETRATIONS SHALL BE SEALED WITH TWO HOUR FIRE STOP SEALANT INSTALL FIRE STOP COLLARS TO PVCU OR DWV PIPEWORK PASSING THROUGH FLOORS AND FIRE WALLS IN ACCORDANCE WITH THE MANUFACTURERS
- WRITTEN INSTRUCTIONS PROVIDE SERVICE IDENTIFICATION AND DIRECTION OF FLOW MARKERS TO PIPEWORK IN ACCORDANCE WITH 11. 451345
- MAKE GOOD ALL DISTURBED SURFACES TO MATCH EXISTING
- MAINTAIN SERVICES TO EXISTING FIXTURES AT ALL TIMES. WHERE CHANGEOVER IS REQUIRED, LIAISE WITH THE ARCHITECT FRICK TO THE SHUTTING DOWN OF ANY SERVICE. CONTRACTOR TO PROVIDE ALL DOCUMENTS, APPROVIALS, CERTIFICATES, WARRANTIES, LOG BOOKS, ETC. UPON
- COMPLETION OF WORKS TO THE ARCHITECT. ALL FEES AND INSPECTIONS TO BE INCLUDED AND ARRANGED BY THE CONTRACTOR.
- REFER TO THE ARCHITECTS DRAWINGS FOR SANITARY FIXTURE AND TAP SELECTIONS. SUPPLY AND FIX 15. ACCESSORIES NECESSARY FOR THE CORRECT INSTALLATION OF THE FIXTURES AND EQUIPMENT

- TASWATER NOTES: ALL WORKS OUTSIDE OF THE PROPERTY BOUNDARY WILL BECOME TASWATER ASSETS. ALL WORKS OUTSIDE OF THE PROPERTY BOUNDARY WILL BECOME TASWATER ASSETS.
 - ENSURE ALL WORKS ARE INSTALLED IN ACCORDANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS NOTED WITHIN THE DRAWINGS AND ISSUED PERMITS
- ALLOW TO ORGANISE ALL APPLICATIONS TO UNDERTAKE TASWATER WORKS AS NOTED IN THE APPROVAL DOCUMENTS AND UNDERTAKE ALL REQUIRED INSPECTIONS DURING CONSTRUCTION. ALL WORKS ASSOCIATED WITH PUBLIC SEWER AND WATER IS TO BE CARRIED OUT IN ACCORDANCE WITH THE WSA
- PARTS 02 & 03 (WATER AND SEWERAGE CODES OF AUSTRALIA) AND TO THE SATISFACTION OF TASWATER. ALL CONNECTIONS TO EXISTING MAINS TO BE CARRED OUT BY THE REGULATING AUTHORITY AT COST TO BUILDER 5
- UNLESS APPROVED OTHERWISE.

SL ENGINEERING NOTES NOVA AND VAHINI THANI ALTERATIONS AND ADDITIONS CHECKED: TW CALE Lower Ground DESIGN: SL ALDANMARK PLANNING APPROVAL HEETS: A3 199 Macquarie Street 9 1 CEDAR COURT TW DESIGN CHECK: Hobart TAS 7000 SANDY BAY TAS 7005 CONSULTING ENGINEERS 03 6234 8666 5m PLANNING APPROVAL 1 2 3 4 01/11/2021 CERTIFIER: TW mail@aldz 21E68-11 H0.02 А DESCRIPTION DATE APPROVAL www.aldanmark.com.a

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WORKPLACE HEALTH AND SAFETY NOTES

- SENERAL 1. THE FOLLOWING RISK MITIGATION NOTES HAVE BEEN PREPARED TO ADVISE THE 'PERSON' CONDUCTING A BUSINESS OR UNDERTAKING (PCBU) ON THE HEALTH AND SAFETY ASPECTS OF THE DESIGN IN ACCORDANCE WITH THE WORK HEALTH AND SAFETY ACT 2011 AND ARE PERTINENT TO ANY TIME WHEN THE BUILDING OPERATES AS A WORKPLACE.
- ANY THE WHEN THE BUILDING OPERATES AS A WORKPLACE. THESIN NOTS WAY NOT NECESSARY ACCOUNT FOR ALL CONSTRUCTION, OPERATION, MAINTENANCE AND DEULITION FRACTICES AND SAFETY RISKS. INCLUSION OF EXCLUSION OF ANY THEN DOES NOT BASCAUTE THE OWNER, CONTRACTICUUSER, MAINTAMEN OF DEMOLISION OF HEAT CONTRACTICATION THEM EELCUN'S THE RESTONABILITY OF ALL DAMAGEMENT ACTIVITIES AND IT IS NOT AN ADMISSION THAT ANY THEM EELCUN'S THE RESTONABILITY OF ALL DAMAGEMENT ACTIVITIES AND ITS NOT AN ADMISSION THAT ANY SAFETY OF A DAMAGEMENT ACTIVITIES AND ITS NOT AN ADMISSION THAT ANY TEM EELCUN'S THE RESTONABILITY OF ALL DAMAGEMENT ACTIVITIES AND ITS NOT AN ADMISSION THAT ANY SAFETY AND ADMISSION OF A DAMAGEMENT ACTIVITIES AND ITS NOT AN ADMISSION THAT ANY CONSTRUCTION OF A DAMAGEMENT AND SAFETY IS PROVIDED IN THE POLLOWING CODES -CONSTRUCTION OF ADMISSION IS TO COMPLY THINKS APPLICABLY.
- "CONSTRUCTION WORK" (CP104);
- HOW TO MANAGE WORK HEALTH AND SAFETY RISKS" (CP11: WANAGING THE WORK ENVIRONMENT AND FACILITIES' (CP124
- "SAFE DESIGN OF STRUCTURES" (CP127). 4. FURTHER ADDITIONAL AND UPDATED CODES OF PRACTICE AND OTHER GUIDANCE MATERIALS FOR 4. FURTHER ADDITIONAL AND UPDATED CODES OF PRACTICE AND OTHER GUIDANCE MATERINAL FOR THE MINIMUM TICK OF RISKS TO VORFILLER HEALT MAD SAFETY ARE MADE AVAILABLE PERIODCALL Y FROM VORSLAFE TASJAMAN AT WWW WORKSAFE TAS SOV AU AND SAFE WORK AUSTRULL ARE WING JAEVORGHUSTERILLE OF AUGUST TAS SOV AU AND SAFE WORK AUSTRULL ARE WING JAEVORGHUSTERILLE OF AUGUST TO WORKS COMMERCIAN O NATE: WINDER APPLICABLE THE SPECIFIC RISKS ASSOCIATED WITH THIS PROJECT HAVE BEEN ASSESSED AND ARE SUMMARISED IN THE ATTACHED RISK ASSESSIONT THACKAD CENTRE/CATION REPORT. AND ARE SUMMARISED IN THE ATTACHED RISK ASSESSIONT THACKAD CENTRE/CATION REPORT.
- CONSTRUCTION PROCESS AND TO PREPARE ADEQUATE SAFE WORK METHOD STATEMENTS AND JOB SAFETY ANALYSIS
- TEMPORARY STRUCTURES AND CONTRACTOR ERECTION PROCEDURES ARE ONLY INDICATED WHERE TEMPORANT STRUCTURES AND CONTINUE TO RECEIVATION PROCEDURES AND ORT TRUCKIED WITHIN SESSIMILATIONE DESCUTION OF THE DESIGNA SA TURDEO IN THE OCUMENTS FROUNDED. DETALED PROCEDURES MUST BE SOUGH FRICK TO WORKS COMMENCEND. FOR ALL ASSOCIATED TEMPORARY STRUCTURE OR RECEITON DESIGNA MOS CENTRICATION IS TO ENGAGE A THIRD PARTY TO ASSIST, CERTFY AND OVERSEE THE ERECTION OF THE WORKS.
- SITE RUPTURE OF SERVICES DURING EXCAVATION FOR OTHER ACTIVITY CREATES A VARIETY OF RISKS INCLUDING RELEASE OF HAZARDOUS MATERIAL EXISTING SERVICES MAY BE LOCATED ON OR AROUND THE BUILDING SITE. WHERE KNOWN, THESE ARE IDENTIFIED ON THE DRAWINGS: HOWEVER THE EXACT LOCATION AND EXTENT OF SERVICES MAY VARY FROM THAT INDICATED. SERVICES OULD BE LOCATED USING AN APPROPRIATE SERVICE. APPROPRIATE EXCAVATION PRACTICE SHOULD BE USED AND, WHERE NECESSARY, SPECIALIST CONTRACTORS SHOULD BE ENGAGED
- SITE ACCESS / TRAFFIC MANAGEMENT: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: "TRAFFIC MANAGEMENT IN WORKPLACES" STANDARD CONTROL. 2. ESPECIALLY FOR BUILDINGS ON A MAJOR, NAPROW, OR STEEPLY INCLINED ROAD: PARKING OF VEHICLES OR LOADING / UNLOADING OF VEHICLES ON THE ROADWAY MAY CAUSE A TRAFFIC HAZARD, DURING CONSTRUCTION, MANTENANCE OR DEMOLITION OF THE BUILDING, DESIGNATED PARKING FOR WORKERS AND LOADING AREAS SHOULD BE PROVIDED. FOR ALL BUILDINGS A TRAFFIC MANAGEMENT PLAN SUPERVISED BY TRAINED TRAFFIC MANAGEMENT PERSONNEL SHOULD
- TRAFFIC MANAGEMENT FUA SUPERVISED BY TRANED TRAFFIC MANAGEMENT PERSONNEL SHOLD BE INFLUENTED FOR THE VIOLS STIEL 2. PUBLIC ACCESS TO CONSTRUCTION AND EBUILDING STIES AND TO AREAS UNDER MANTENANCE CALUES RISK TO VIONERISK AND CHE PUBLIC WARNING STOKE AND SECURE BARRIERS TO UNALTHORIED ACCESS SHOLD BE PROVIDED WHERE ELECTICAL INSTALLATIONS, ELCAVATIONS, PLANT OR LOODE MITERNIAL ARE PRESENT, THEY SHOLD BE ESCURED WHEN NOT FULLY PLANT OR LOODE MITERNIAL ARE PRESENT, THEY SHOLD BE ESCURED WHEN NOT FULLY SUPERVISED.
- BUILDING OWNERS AND OCCUPIERS SHOULD MONITOR THE PEDESTRIAN ACCESS WAYS AND, IN PARTICULAR. ACCESS TO AREAS WHERE MAINTENANCE IS ROUTINELY CARRIED OUT. TO ENSURE THAT SUBFACES HAVE NOT MOVED OR CRACKED SUCH THAT THEY BECOME UNEVEN AND PRESENT A TRIP HAZARD. SPILLS. LOOSE MATERIAL, STRAY OBJECTS OR ANY OTHER MATTER THAT MAY CAUSE A SLIP OR TRIP HAZARD SHOULD BE CLEANED OR REMOVED FROM ACCESS WAYS.
- CAUSE A SUP OR THEIP HARARD SHICLA DE CLANED OR RELEVICE DROM ACCESS WAYS CONTRACTORS SHOULD BE REQUERED OMAINAR A TOWNOR SHE DURING CONSTRUCTOR, MANTENANCE OR DEULCING TO REDUCE RISK OF THEIP SAID FALLS IN THE WORKPLACE, MATERIAL SHO CONSTRUCTION OR MAINTENANCE SHOULD BE STORED IN DEGINATED AREAS AWAY FROM ACCESS WAYS AND WORK AREAS CONSTRUCTION OF RULDING LEDINGTIST THAT ARE RECESSARY TO CONTRIBUTE TO SAFE ACCESS TO THE BULDING, SUCH AS HANDRAKS, SCHPCIDING, ACCESS STARS, FALL ARREST STIFTING ECT, MUST TURE ALCE FRIGET TO FOROMESING WITH ANY OTHER WORKS THOUSEN WHICH THOSE FOR MUST AND MORE ALCE RECENT TO CONTRIBUTE TO SAFE ACCESS TO THE BULDING, SUCH AS HANDRAKS, SCHPCIDING, ACCESS STARS, FALL ARREST STIFTING ECT, MUST TURE ALCE FRIGET TO FOROMESING WITH ANY OTHER WORKS THOUSEN WHICH THOSE ELEMENTS WILL BE REQUIRED.

IF THE BUILDING SITE IS ADJACENT TO ANY BODY OF WATER ADEQUATE PROTECTION AND ACCESS PREVENTION SHALL BE PROVIDED THE CONTRACTOR IS TO PREVENT AS A SAFE WORK METHOD STATEMENT FOR ANY WORKS REQUIRED TO BE UNDERTAKEN OVER WATER.

LIGHTING AND VENTILATION: 1. THE CONTRACTOR IS TO PROVIDE ADEQUATE LIGHTING AND VENTILATION TO ALL AREAS REQUIRED TO BE OCCUPIED BY WORKERS DURING CONSTRUCTION. PRIOR TO THE COMMISSIONING OF THE BUILDING, FINAL LIGHTING AND VENTILATION MUST BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE B.C.A.

ERE AND EMERGENCY

PLANNING APPROVAL

DESCRIPTION

RE AND EMERGENCY: DECLARS SPECIFIC FIRE EQUIPMENT AND EMERGENCY EVACUATION PROCEDURES ARE TO BE PROVED AND MANTANED BY THE CONTRACTOR DURING VIORIS ONSITE ACCORDING TO A 3AFE VIORIN LIEFLOS TRETEMENT TO BE PREARED BY THE CONTRACTOR PRIOR TO VIORIS COMMENCING ONSITE, PRIOR TO THE COMMENSIONNG OF THE BULDING, FAML FIRE PROTECTION EQUIPMENT SHALL BE PROVED BY ACCORDANCE WITH THE REQUIREMENTS OF THE B.C.A.

- ELECTRICAL: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND ELECTRIC LINES' AND 1MANAGING ELECTRICAL RISKS IN THE WORKPLACE' (CP117) AND AS 3012 STANDARD CONTROLS.
- UNDERGROUND POWER LINES MAY BE LOCATED IN OR AROUND THE SITE. ALL UNDERGROUND POWER LINES MUST BE ACCURATELY LOCATED AND EITHER DISCONNECTED OR ADEQUATE EXCLUSION ZONES DELINEATED PRICE TO ANY CONSTRUCTION MAINTENANCE OF DEMOLITION WORK COMMENCING
- DELINEATED FROM TO ANY CONSTRUCTION, MAINTENANCE OR DEVIDUTION WORK COMMENCIAL OVERHEAD POYRER LAIS MAY EL CLOSED ON RIKEAT HEST FLASE POSE SAUNICHAIT RAK # STRUCK OR APPERCACHED DI UFTNO DEVICES OR OTHER FLAIT AND PERSONE WORKNO AUDVE GROUND LEVEL, WARET THERE IS A BANGER OF THIS OCCURRENT, DEVIDEN LINES SHOLD BE, WHEE PRACTICAL, DISCOMENCTED OR RELOCATED WHERE THIS S NOT PRACTICAL, CLEARLY DERIFFED EXCLUSION, ZONE AND APPROACH DEVICES SHALL BE CETALISATION.

EXCAVATION 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: "EXCAVATION WORK" (CP107) STANDARD CONTROL

- CONSTRUCTION OF THE RUILDING AND SOME MAINTENANCE ON THE RUILDING MAY REQUIRE
- PROTECTION AND ACCESS PREVENTION SHALL BE PROVIDED. 4. THE CONTRACTOR IS TO CONSULT ANY SITE INVESTIGATION REPORTS ETC. BEFORE CONDUCTING
- ANY EXCAVATION WORKS. IN THE CASE OF ANY AREAS BEING IDENTIFIED AS HAVING GROUND CONTAINATION PRESENT, A QUALIFIED SPECIALIST CONSULTANT SHALL BE ENGAGED TO PROVIDE REMEDIAL WORKS DESIGN AND RISK MITIGATION STRATEGIES.

CONSTRUCTION

- THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE:
- FORMWORK AND FALSEWORK' STANDARD CONTROL. ALL FORMWORK AND SUPPORTING SCAFFOLD STRUCTURES MUST BE DEIGNED TO CARRY THE CONSTRUCTION LOADING SPECIFIED WITH THIS SET OF DOCUMENTATION
- EXPENSION TO TRANSPORT OF WITH THIS SET OF DODUCTION TAKEN THE DODUCTION OF THE DEVICE OF THE DODUCTION TAKEN AND SUPPORT DO UNITED CONTINUES AND SUPPORTS AND SUPPORTS ARE NOT PROVIDED AS PART OF THIS DOCUMENTATION. SLABS THAT SUPPORT CONTINUES TEMPORARY STRUCTURE MUST BE CARCY REOPPED ACK PROPPING MUST BE CHECKED AND APPROVED PRIOR TO AN ADDITIONAL CONSTRUCTION LODIES WALLS, OCCUMENT, AND OTHER VERTICAL PORTUNING WILD BE CHECKED AND DESIGNED FOR WALLS, OCCUMENT, AND OTHER VERTICAL PORTUNING WILD BE CHECKED AND DESIGNED FOR MUST AND THE CHECKED AND APPROVED PRIOR TO AND TRANSPORT TO ADDITIONAL CONSTRUCTION.
- POTENTIAL HYDROSTATIC LOADING DURING CONCRETE PLACEMENT

- PRECAST PANEL ERECTION: THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE. PRECAST
- 1. THE CONTRACTOR IS TO COMPUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE. VIECULAT CONTRACTOR IS TO COMPUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE. VIECULAT CONTRACTOR IS TO ENSURE THAT YOU THAN IS OF AND LOCATIONS AND AS IN ACCORDANCE CAPACITY BEFORE PARSES ARE ERECTED THIS IT TO ACLUDE BUT IS NOT LAMITED TO CAMAE SUPPORT EMANDAL, LOCATION OF UNDERSTORMED SERVICES, OVERTINEWING, LIFTING CAPACITY, OVERHEARD DESTRUCTIONS AND TRAFFIC MAXARDS.
- POINTS. WHERE APPROPRIATE AN APPROVED SPREADER BEAM IS TO BE USED. 4. PATHWAYS OF OVERHEAD TRAVEL OF PANELS ARE TO BE CLEARLY MARKED AND ACCESS TO
- THESE RESTRICTED DURING LIFTING. PANEL REARING AND LOCATING PLATES AND DOWELS ARE TO BE CHECKED FOR FINAL LOCATION
- PAREL BEARNO AND LOCATING PLATES AND DOVIELS ARE TO BE CHECKED FOR PHALLOCATION. PAREL REOPPOND AND TENFORMST SUPPORT MUST BE LOCATED WITH APPROVED ANCHORS AND APPROPRIATE CHECKS AND DESIGNS FOR CAPACITY, NUMBER AND CONFOURATION OF PROPS IS BE CONDUCTED PRIOR TO BERCHION TEMPORARY SUPPORTING STRUCTURE DURING CONSTRUCTION NOT FROVIDED AS PART OF THESE DESIGN DOCUMENTS AND MUST BE OBTAINED FROM TO ERECTION

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DESIGN:

01/11/2021 CERTIFIER:

DATE

- STRUCTURAL STEEL ERECTION: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: "WELDING PROCESSES" (CP14), "ABRASIVE BLASTING" (CP101) AND "SPRAY PAINTING AND POWDER COATING" (CP131) STANDARD CONTROLS. 2. CONTRACTOR IS TO ENSURE THAT CRANE SIZE AND LOCATION IS ADEQUATELY ASSESSED FOR
- 2 CONTRACTOR IS TO ENSURE THAT CRAME SEE AND LOCATORI S AREQUIRTER VASSESSED FOR CAPACITY REFORMED THE FRAME SEE VALUE TO THAT IS AND LOCATORI AS SESSED FOR CAPACITY REFORMED THAT IS AND LOCATION AND THAT CAPACITY. SUBJECT AND LOCATION AND THAT IS AND LOCATION AND LOTING CAPACITY. CHANN AND LIST OF FOR FRAMEWORK SITE OF CHARGE AND AND AND AND AND AND POINTS. WHERE APPROPRIATE AN APPROVID DIFFLORE BEAM IS TO BE USED. PATIVANYS OF UPPRIATE THAT PROVIDE DIFFLORE BEAM IS TO BE USED. PATIVANYS OF UPPRIATE THAT APPROVED DIFFLORE BEAM IS TO BE USED. TEMPORATIVE TO UPPRIATE THAT APPROVED DIFFLORE BEAM IS TO BE USED. TEMPORATIVE TO UPPRIATE THAT APPROVED DIFFLORE BEAM IS TO BE USED. TEMPORATIVE THOUSAND AND LOCATION AND THAT AND AND ACCESS TO THESE RESTRICTED DURING LIFTING.
- ERECTION. ALL STEEL FRAMES ARE TO BE TEMPORARY BRACED, UNTIL STRUCTURE IS FULLY ERECTED AND ALL CONNECTIONS BOLTED OR WELDED TOGETHER AS REQUIRED. TEMPORARY
- SUPPORTING STRUCTURE DURING CONSTRUCTION IS NOT PROVIDED AS PART OF THESE DESIGN
- SUPPORTING STRUCTURE DURING CONSTRUCTION IS NOT PROVIDED AS PART OF THESE DESIGN DOCUMENTS AND UNIT OFFANDE PORTO FERECTON. STEE BABED TREATMENTS OF STEEL, FRAMMO MEMBERS (EG. CUTING, WELDING, ORT BLASTING, STRAF YARMING, TCJ ST OB ELIMANED WAREFURE PORSELLE. STEE BABED TREATMENT IS HANVODALE, AREQUATE PROTECTION, SCREENNO ARD VENTILATION TO MINIMOE HAZARDS TO PERCOMELS TO DE PROVIDED AVOD STEE BABE HOT WORKS WHERE POSSIBLE. IF UNAVDEALE, STEE SPECIFIC PROCEDURES FOR HOT WORKS PERMITS ET. ARE TO BE FOLSIVED.

ALDANMARK Hobart 187 2000

- WORKING AT HEIGHTS: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: "MANAGING THE RISK OF FALLS AT WORKPLACES" (CP122), "PREVENTING FALLS IN HOUSING CONSTRUCTION" (CP127), "SCAFFOLDS AND SCAFFOLDING WORK" AND AS 1657 STANDARD CONTROLS. 2. SCAFFOLDING MUST BE SECURED AND BRACED TO RESIST OVERTURNING. SINGLE PROPS MUST NOT
- BE USED UNLESS A DESIGN CHECK ON STABILITY IS MADE AND THEY ARE FIXED TO A STABLE BASE AT MIDPOINTS
- CONTRACTOR IS TO USE PASSIVE FALL PREVENTION DEVICE IF POSSIBLE (IF FIXED PLATFORM CHERRY PICKERS ETC.

- CONCRETE STRESSING: 1. CONTRACTOR IS TO ENSURE THAT CONCRETE STRENGTH MEETS REQUIRED CAPACITY AT TIME OF STRESSING. RESTRICTED STRESSING AREAS ARE TO BE PROVIDED TO ALL AREAS WHERE STRESSING IS TAKING
- PLACED BOTH AT LIVE AND DEAD ENDS OF STRESSING DUCTS CONTRACTOR MUST ENSURE THAT AT ALL TIMES DURING STRESSING ONLY QUALIFIED AND
- APPROVED PERSONNEL HAVE ACCESS TO DESIGNATED STRESSING AREAS SUARS THAT SUPPORT CONTINUED TEMPORARY STRUCTURE MUST BE BACK PROPRED, BACK PPING MUST BE CHECKED AND APPROVED PRIOR TO ANY ADDITIONAL CONSTRUCTION

- CRANES AND OTHER MECHANICAL PLANT. 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: "CRANES" JUANGING THE RISKS OF PLANT IN THE WORKPLACE"(CP123), "INDUSTRIAL UFT
- TRUCKS' AND AS 2550 STANDARD CONTROLS. 2. MECHANICAL LIFTING OF MATERIALS AND COMPONENTS DURING CONSTRUCTION, MAINTENANCE OR DEMOLITION PRESENTS A RISK OF FALLING OBJECTS. CONTRACTORS SHOULD ENSURE THAT APPROPRIATE LIFTING DEVICES ARE USED. THAT LOADS ARE PROPERLY SECURED. AND THAT ACCESS TO AREAS BELOW THE LOAD IS PREVENTED OR RESTRICTED
- ACCESS TO AREAS BELOW THE LOAD IS INSURVINTED ON RESTRICTED. CONTRACTOR IS TO ENSURE THAT CAME SIZE AND LOCATION IS ADECUATELY ASSESSED FOR CAPACITY BEFORE ANY LEFT THIS IT TO INCLUDE BUT IS NOT LIMITED TO CRANT SUPPORT BEARING, LOCATION OF UNDERGROUND SERVICES, OVERTURNING, LIFTING CAPACITY, OVERHEARD DESTRUCTIONS AND TRAFFIC MAZAROS.

EXISTING BUILDINGS

DEMOLITION

- THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE
- THE CONTINUE TO STOCKNOCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE:
 CLOCATION OF USISTING SHEREOED UNE SERVICES ARE TO BE ACCURATELY ESTABLISHED PRIOR TO ANY FRANETRATION OF EXISTING STRUCTURE.
 DO NOT CUT OF REVOK ANY STRUCTURE.
 STRUCTURE LENGINEER
 STRUCTURE LENGINEER CUTTING OR REMOVAL OF EXISTING CONCRETE AND REINFORCEMENT

EXISTING STRUCTURAL ADEQUACY

- WHERE EXISTING STRUCTURAL ELEMENTS ARE DAMAGED OR EXHIBIT SIGNIFICANT SECTION LOSS. WHERE EXISTING STRUCTURAL ELEMENTS ARE DAMAGED OF EXHIBIT SIGNIFICANT SECTION LOSS, A SUTABLY COLLERED STRUCTURAL REAGABLES THAT LE ENAGABLE TO BECKIN A SYSTEM FOR STABLEMOI SUPPORTION THE EXISTING STRUCTURE, SUCH THAT ALL WORK AREAS YOUL, BE CORRECTOR OF DESTING STRUCTURAL ELEMENTS SHALL BE REPORTED TO THE EXISTING STRUCTURAL CORRECTOR OF DESTING STRUCTURAL ELEMENTS SHALL BE REPORTED TO THE EXISTENCE FROM TO PROCEEDING WITH WORKS.
 ANY EXISTING ENAMINISTICAL RESULTION TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREE SHALL BE INSPECTED BY A SUITABLY COALSPECTURAL WITH FROM TO DATE TO A SECTION THE STREEMART OF THE STREEMART OF THE SHALL BE A SECTION THE STREEMART OF THE SHALL BE A SECTION THE SHALL BE A SECTION THE STREEMART OF THE SHALL BE A SECTION THE STREEMART OF THE SHALL BE A SECTION THE SHALL BE A SECTION THE SHALL BE A SECTION THE STREEMART OF THE STREEMART OF THE STREEMART OF THE STREEMART OF STREEMART OF THE STREEMART OF STREEMAR
- EQUIPMENT, OR STOCKPILING MATERIAL ADJACENT TO EXISTING RETAINING STRUCTURES NO EXCAVATION SHALL BE PERFORMED ADJACENT TO ANY EXISTING STRUCTURE ESPECIALLY BELOW THE 45° LINE FROM THE UNDERSIDE OF AN EXISTING FOOTING WITHOUT THE EXPRESS

PERMISSION OF THE STRUCTURAL ENGINEER

- ASBESTOS: 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODES OF PRACTICE: HOW TO MANAGE AND CONTROL, ASBESTOS IN THE WORKPLACE"(CP111) AND HOW TO SAFELY REMOVE ASBESTOS"(CP115) STANDARG CONTROLS. 2. FOR ALTERATIONS TO OR DEMOLITION OF A BUILDING CONSTRUCTED PRIOR TO 1990, IF THE BUILDING
- WAS CONSTRUCTED PRIOR TO: 1990 - IT MAY CONTAIN ASBESTOS:
- 1986 IT IS LIKELY TO CONTAIN ASBESTOS EITHER IN CLADDING MATERIAL OR IN FIRE-RETARDANT INSULATION MATERIAL. IN EITHER CASE, THE BUILDER SHOULD INSPECT AND, IF NECESSARY, HAVE ANY ASBESTOS REMOVED BY A SUITABLE QUAL FIED PERSON BEFORE DEMOLISHING, CUTTING, SANDING, DRILLING OR OTHERWISE DISTUR THE EXISTING STRUCTURE.

03 6234 8666

mail@aldaemark.com.a

www.aldanmark.com.a

PRIOR TO ANY WORKS COMMENCING AN APPROPRIATE METHOD OF PAINT REMOVAL AND DISPOSAL IS TO BE DETERMINED. PARTICULARLY ON HISTORIC STRUCTURES. COATINGS CONTAINING COAL TAI EPOXIES, BITUMEN AND ASPHALTS, ZINC CHROMATE AND LEAD AMONG OTHERS PRESENT A HEALTH RISK. ADEQUATE SCREENING IS TO BE PROVIDED TO THE PUBLIC AND THE SURROUNDIN ENVIRONMENT DURING PAINT REMOVAL AND CLEANING OPERATIONS. ENVIRONMENTALL APPROPRIATE METHODS ARE TO BE EMPLOYED DURING MAINTENANCE AND REPAIR WORK

NOVA AND VAHINI THANI

1 CEDAR COURT

SANDY BAY TAS 7005

HAZARDOUS SUBSTANCES 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: MANAGING RISKS OF HAZARDOUS CHEMICALS IN THE WORKPLACE" (CP120) STANDARD CONTROL

POWDERED MATERIALS:

MANY MATERIALS USED IN CONSTRUCTION CAN CAUSE HARM IF INHALED IN POWDERED FORM MAY MATERIALS USED IN CONSTRUCTION CAN CAUSE HARM IF INFALED IN POWDERED FORM. PERSON'S WORKNOG ON OR IN THE BULLIOND DURING CONSTRUCTION, OPERATIONAL MAINTENANCE OR DEMOLITION SHOULD INSURE GOOD VERTLATION AND WIRAP PERSONAL PROTECTIVE EQUIPMENT, INCLUDING PROTECTION AGAINST INFALATORI WIRLE USING POWDERED MATERIAL OR WIREM SAMONG, ORLILING, CUTTING OR OTHERWISE DISTURBING OR CREATING POWDERED

TREATED TIMBER

THE DESIGN OF THE BUILDING MAY INCLUDE PROVISION FOR INCLUSION OF TREATED TIMBER WITHIN THE STRUCTURE, DUST OR FUNES FROM THIS MATERIAL CAN BE HARMFUL, PERSONS WORKING ON OR IN THE BUILDING DURING CONSTRUCTION OPERATIONAL MAINTENANCE OR WORKING ON OR IN THE BUILDING DURING CORSTRUCTION, OFBENTIONAL MAINTIBINGE OR DEMULTION SHOLD ENSURE GOOD EVENTATION AND EVER PERSIONAL PROTECTIVE ECOLIPIENT INCLUDING PROTECTION AGAINST INHALATION OF HARKFUL MATERIAL WHEN SANDING, DRILLING, CUTTING OR USING TREATED TIMBER IN ANY WAY THAT MAY CAUSE HARKFUL MATERIAL TO BE RELEASED. DO NOT BURN TREATED TIMBER.

VOLATILE ORGANIC COMPOUNDS

 MANY TYPES OF GLUES, SOLVENTS, SPRAY PACKS, PAINTS, VARNISHES AND SOME CLEANING. MATERIALS AND DISINFECTANTS HAVE DANGEROUS EMISSIONS. AREAS WHERE THESE ARE USED SHOULD BE KEPT WELL VENTILATED WHILE THE MATERIAL IS BEING USED AND FOR A PERIOD AFTER INSTALLATION. PERSONAL PROTECTIVE EQUIPMENT MAY ALSO BE REQUIRED. THE MANUFACTURERS' RECOMMENDATIONS FOR USE MUST BE CAREFULLY FOLLOWED AT ALL

SYNTHETIC NINERAL FIBRE: 1. GLASS FIBRE, ROCK WOOL, CERANIC AND OTHER MATERIAL USED FOR THERMAL OR ACOUSTIC INSULATION MAY CONTAN SYNTHETIC MINIBRA. FIBRE WHICH MAY BE HARMFUL # PAHALED, OR FI IT COMES INTO CONTACT WITH THE SKIN, EYES OR OTHER SENSITIVE PARTS OF THE BCOV. PERSONAL PROTECTIVE EQUIPMENT, INCLUDING PROTECTION AGAINST INHALATION OF HARMFUL MATERIAL SHOULD BE USED WHEN INSTALLING. REMOVING OR WORKING NEAR BULK INSULATION MATERIAL

- HAZARDOUB MANUAL TASK 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE HAZARDOUB MANUAL TASK'S (CH10) STANDARD CONTROL 2. CONFORMETS WITHIN THIS DESIGN WITH A MASS IN EXCESS OF 25 KG SHOULD BE LIFTED BY THO OR NORM CONCERNS OR IF AN ACCIMANCE LIFTED BY THO OR NORM CONCERNS OR IF AN ACCIMANCE LIFTED BY PRACMAGE AND (MERE PRACTICAL ALL TIESE SHOULD BE STORED ON IER AN ANT THAT PRACMAGE AND (MERE PRACTICAL ALL TIESE SHOULD BE STORED ON IER AN ANT THAT
- MINIMISES BENDING BEFORE LIFTING. ADVICE SHOULD BE PROVIDED ON SAFE LIFTING METHODS IN ALL AREAS WHERE LIFTING MAY OCCUR.

RESIDENTIAL BUILDINGS

ALTERATIONS AND ADDITIONS

2

3 4

PLANNING APPROVAL

0 1 BE APPLIED TO THE NEW USE

- CONTINUE DRACES 1. THE CONTINUE TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: 2. THE CONTINUE TO CONDUCT WORKS IN ACCORDANCE ONTITION: 2. DIACODED PRACE WITHIN THE MULTION DARA PRESENT A RESIST OF PRESCHE ENTERNO FOR 2. CONTINUETON, MANTENANCE OR ANY OTHER PRAPOSE WHERE WORKERS ARE REQUIRED TO ENTER REACODED PRACE ARE TRATING CAUNTAIN A RESIST OF PRESCHE ACTIVITIE (CONTINUE) SHALL BE PROVIDED ONLY TRANED PRESISNAL ARCTICAL CONTINUES PRACE AND THE CONTINUETON TO REPERANT A VIEW RETHOR STATEMENT ADDRESSION CONTRACTOR IS TO PREPARE A WORK METHOD STATEMENT ADDRESSING MITIGATION OF RISKS FOR ANY SUCH WORKS, ADEQUATE SIGNAGE IS TO BE PROVIDED TO ALL TEMPORARY AND PERMANENT CONFINED SPACES IN ACCORDANCE WITH AS 2855

NOBE 1. THE CONTRACTOR IS TO CONDUCT WORKS IN ACCORDANCE WITH THE CODE OF PRACTICE: MANAGING NOISE AND PREVENTING HEARING LOSS AT WORK* (CP118) STANDARD CONTROL OPERATIONAL USE OF BUILDING THIS BUILDING HAS BEEN DESIGNATED AS A RESIDENTIAL BUILDING. IF THE BUILDING, AT A

LATER DATE. IS USED OR INTENDED FOR USE AS A WORKPLACE, THE PROVISIONS OF THE

SCALE

21E68-11

5m

WORK HEALTH AND SAFETY ACT 2011 OR SUBSEQUENT REPLACEMENT LEGISLATION SHOULD

WORKPLACE HEALTH & SAFETY NOTES

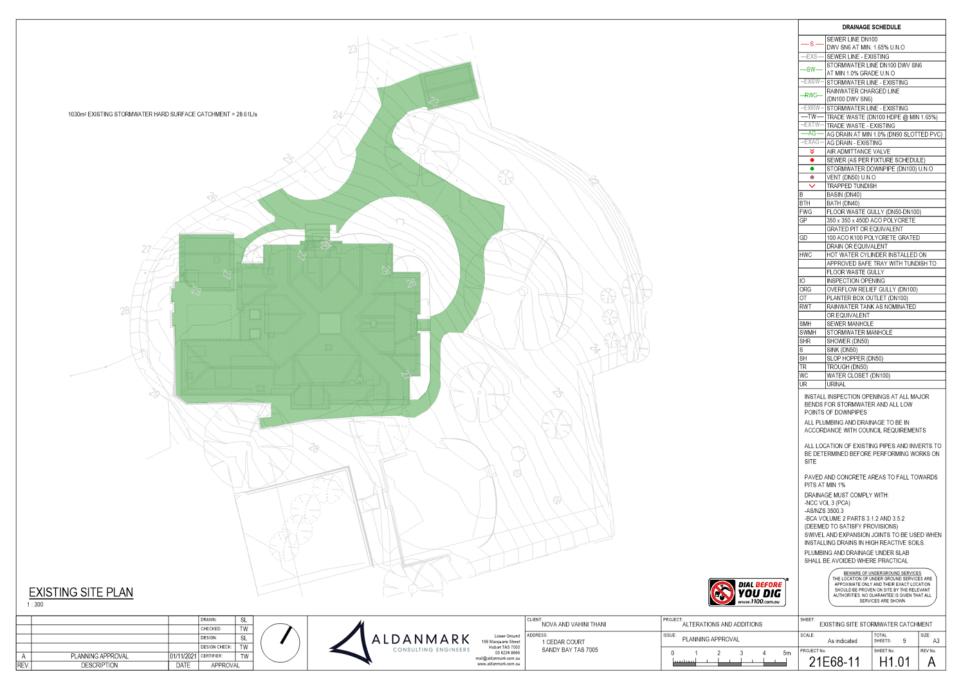
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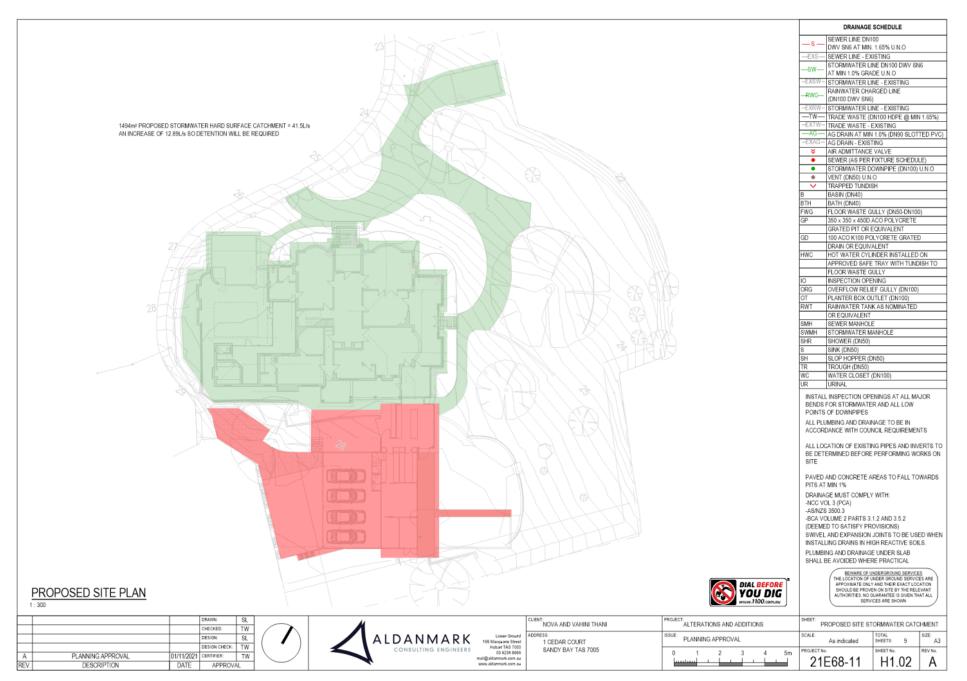
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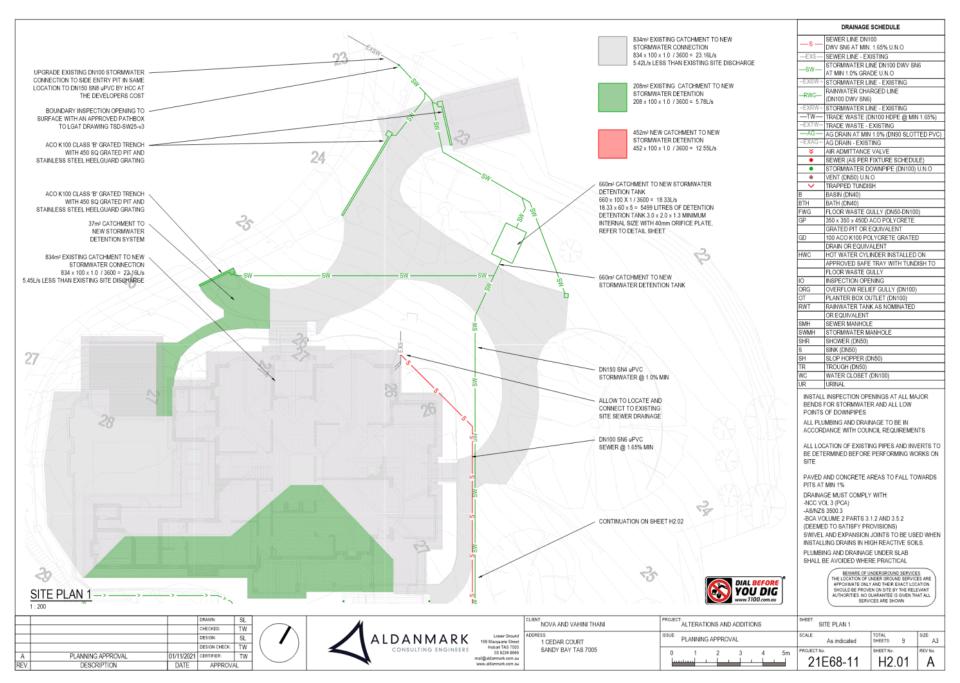
Page 317 ATTACHMENT B



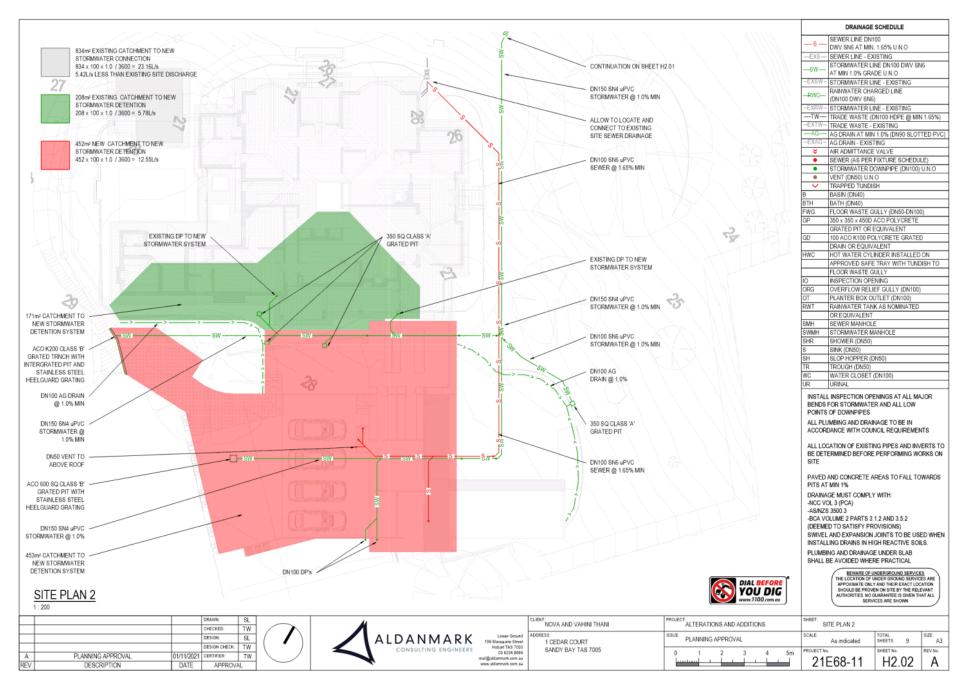
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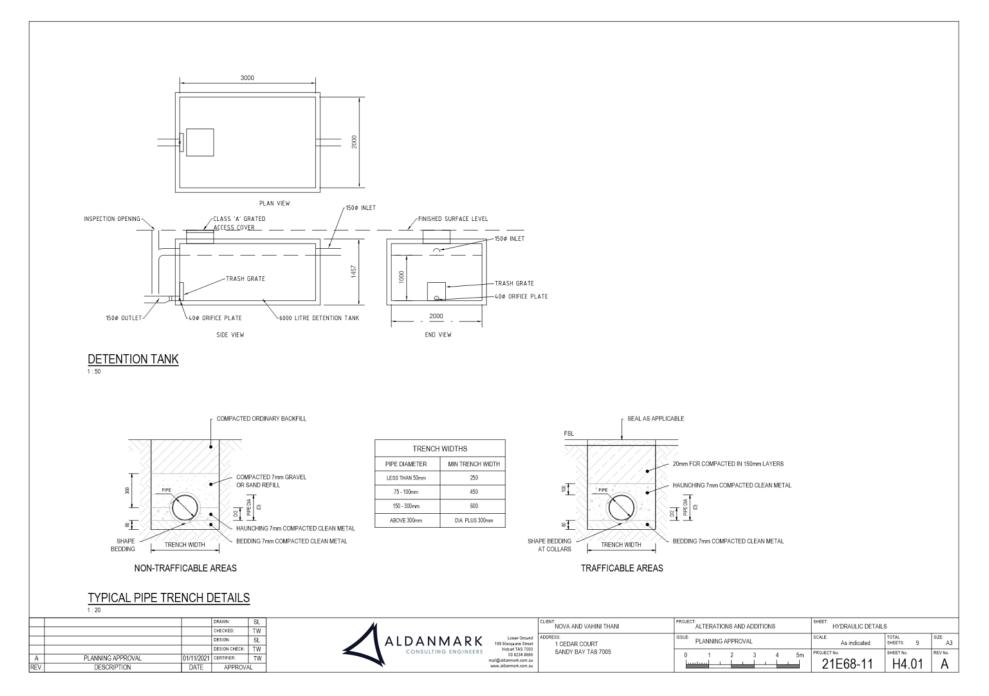
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			ORMWATER DETENTION TANK DR ORIFICE SIZING SCHEDU			7	
	Project						
	Name: 1 Cedar Engineer: Stuart la		Dject No.: 21E68-11 Date: 27/10/2021				
	Engineer: Stuart la						
		F	Revision: A				
[CATHMENT BASIN	LOCATION AREA REQUI	IRED OUTLET OUTLI	T DISCHARGE HEAD OF	OUTLET		
	AREA No	OSD	PSD TYPE DIAMET		X-SECTIONAL AREA		
		m ² m ³	(2) m ³ /s mm	(3) C m	m ²		
	1	660 5.5	0.0030 Orifice 40	0.60 0.80	0.001		
			=(L17*4/3.142)	*0.5*1000 =0	i17/(J17*(2*9.81*K17)^0.5)		
	2) Permissable Site Disch	ne calculated from AEP20 yr 5 Minute Duration R arge calculated from Hobart City Council develop					
	(3) Head of Water calculate	ed to invert of pipe outlet					
		DETENTION	TANK ORIFICE SIZI	NG CALCULATIONS			
	6 Botto	m area of tank or container	(m2)				
	BOllo	in area of tank of container	(m-)				
1	1 H - he	a lack the device a construction of a second s					
		eight between surface and a	perture (m)				
			perture (m)				
0.0		eignt between surrace and a _i perture area (m ²)	perture (m)				
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0.	001 A - ap	perture area (m ²) discharge coefficient f "slices" or segments (for the	e iterative caiculation)			7	
0.	001 A - ap	perture area (m ²) discharge coefficient		Volume in Segment (m ³)	Time to Drain Segment (S)	1	
0.	A - ap .6 C _d - c 0 no. of Segment 0	berture area (m ²) discharge coefficient f "slices" or segments (for the segment and Aperture (m) 0.95	e iterative calculation) Average Flow (m ³ (s) 0.00259	(m ³) 0.6	(s) 232		
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Attn: Planning Officer Hobart City Council

Tuesday, 8 June 2021

File Reference: 1 Cedar Court, Sandy Bay

Dear Planning Officer,

I am writing this letter to accompany the submission for Development Application for 1 Cedar Court, Sandy Bay. The existing Federation Queen Anne style residence 'The Gables' was designer by Christopher Cowper and constructed in 1911.

The new works are to incorporate a new kitchen, bbq area and courtyard, garage (and associated mud room) and driveway, storage, home gym with associated powder room, and a pool. These works are to accommodate the needs of the growing family now and into the future.

The new extension is respectfully situated to the rear of the existing building and is also set back from all major facades of the existing building. The proposed roof is modest and sits no higher than the existing highly detailed gable roof fascia boards. The new works connect to the existing house by a low flat roof. This roof line then steps up (but remains lower than the existing gables) to incorporate sufficient height for the garage which mediates the level change. The proposed works are subservient through sitting, scale, bulk, height, fenestration, materials, and finishes.

The new extension touches the existing building lightly. As part of the works, a section of brick wall is to be removed to make an opening between the informal dining and new kitchen – this wall has been altered in the past. All existing red bricks removed in this wall will be retained and reused as part of the new works.

The extension is simply detailed taking cues from the highly crafted fenestration of the existing. New slender circular columns are paired to echo the existing twin turned woodwork Tuscan columns. The extension draws reference from the existing construction hierarchy; sandstone base, red brickwork to window sill height (typically) and lightweight finishes above, such as timber and stucco render. The proposed works will be complimentary to the existing yet clearly identifiable as different periods of construction.

A primary element of our clients brief, is for the kitchen to be the heart of the home – a gathering hub for the family. The original kitchen would have been designed for workers/staff and to be tucked away hence its centralized location at the rear of the home. Key to our client's brief is for their new kitchen to be connected to and celebrate the establish garden within which the home sits. For this reason, the new works are aligned to look over the garden without being visible past the existing building line (on approach via Cedar Court).

Please do not hesitate to contact me should you have any questions or concerns.

Yours Sincerely

MM 0 4 -

Benn Turner Project Architect

prestonlane.com.au



Attn: Helen Ayers Planning Officer Hobart City Council

Monday, 1 November 2021

Reference: 1 Cedar Court, Sandy Bay - PLN-21-388, RFI response

Dear Helen,

The below information is to accompany the drawings submitted in response to the request for additional information dated 03 August 2021.

Planning

PLN Fi1

- 1. Please refer drawings A00-02 and A02-00
- 2. Please refer drawing A04-01
- 3. Please refer drawings A00-02, A02-00, A02-02, A02-03
- 4. Please refer drawings A04-01 and A05-01
- 5. Please refer drawings A04-00 and A04-01

Tasmanian Heritage Council

- 1. Please refer drawings A01-50 and A01-51
- 2. Please refer drawing A05-01
- 3.
- Please refer drawing A04-02
- Please refer below images







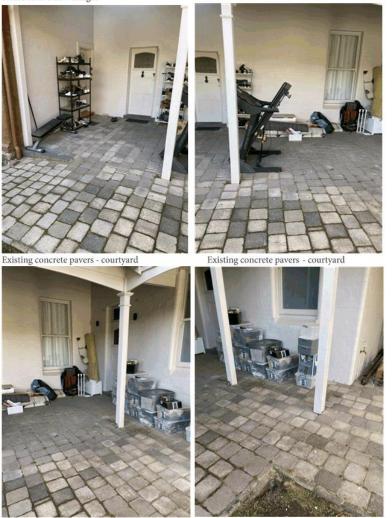
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Please refer drawing A02-00

- 4. Please refer drawing A04-01.
- 5. Please refer drawings A04-00 and A04-01.

Heritage Code HER Fi1 Please refer below images



Existing concrete pavers - courtyard

Existing concrete pavers - courtyard

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Existing concrete pavers - courtyard

HER Fi 2 Please refer drawing A05-01

HER Fi 3 Please refer drawing A10-00

HER Fi4 Please refer drawing A05-01

HER Fi 5

Please refer drawings A01-50 and A01-51

HER Fi 6 Please refer drawings A01-50 and A01-51

Parking and Access

PA 2.1 E6.7.2

- A1(a)
- Please refer drawing A02-00 and A02-03, in addition please refer Midson Traffic 1-7 Cedar Court . - Response to Council RFI.
- Please refer drawing A05-01
- Please refer Midson Traffic 1-7 Cedar Court Response to Council RFI .

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PA 2.2

Please refer Midson Traffic 1-7 Cedar Court - Response to Council RFI

E6.7.2

A1 (a) Please refer Midson Traffic 1-7 Cedar Court – Response to Council RFI

PA 5.1

Please refer drawing A02-00 and Midson Traffic 1-7 Cedar Court - Response to Council RFI.

E6.7.5

A1

- Please refer drawing A02-00
- Please refer drawings A02-00 and A02-03
- Please refer drawing A02-00 and Midson Traffic 1-7 Cedar Court Response to Council RFI.
- Please refer drawing A05-01
- Please refer drawing A02-00
- Please refer drawings A02-00 and A05-00
- Please refer drawing A04-01
- Please refer Midson Traffic 1-7 Cedar Court Response to Council RFI

PA6

E6.7.6 A1

- Please refer drawings A02-00, A02-02 and A02-03
- Please refer drawing A02-04

Stormwater Code

Sw1 Please refer drawings H0.01, H0.02, H0.03, H1.01, H1.02, H2.01, H2.02, H3.01. **Sw6** Please refer drawings H0.01, H0.02, H0.03, H1.01, H1.02, H2.01, H2.02, H3.01.

Yours Sincerely

Bentu

Benn Turner Project Architect

prestonlane.com.au



Keith Midson Midson Traffic Pty Ltd 25 Hinman Drive Kingston TAS 7050 0437 366 040

2 February 2021

Benn Turner Preston Lane Architects 60 Barrack Street Hobart TAS 7000

Dear Benn,

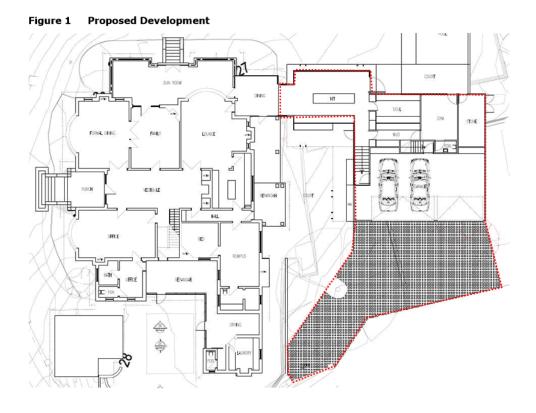
1 CEDAR COURT – TRAFFIC ENGINEERING EXPERT OPINION

Further to our recent discussions I confirm that I have reviewed the proposed plans and inspected the site and surrounding network for the proposed development at the abovementioned address.

The proposed development is for an additional vehicular crossover servicing a 3-car garage at the culde-sac end of Cedar Court as shown in Figure 1.

Council have raised concerns regarding the proposed new vehicular access, citing the following key concerns:

- Non-standard turning head arrangement at the termination of Cedar Court, at the location where the proposed vehicular cross-over is proposed.
- Proliferation of vehicular accesses within the turning head of Cedar Court.
- Concerns of vehicle safety.
- Potential for Council to extend the footpath in the future.
- Council would generally not entertain 3 accesses for a single dwelling.



This letter provides an expert opinion on each of the matters raised by Council.

1. Cedar Court Turning Head & Number of Accesses

Cedar Court is a local access road that services 5 houses. It has very low volume and functions as an accessway for the properties it services. Turning at the end of the cul-de-sac is available with a 'Y' shaped turning area that is approximately 15 metres wide. The LGAT Standard drawings specify a 'Y' width of 24 metres for new designs. The current construction of the turning area is therefore smaller than current standards, but does permit the turning of small vehicles.

Cul-de-sacs typically have multiple driveways within the turning area of the road. In this case three driveways are located immediately adjacent to each other at the end of the cul-de-sac opposite the subject site.

A quick review cul-de-sacs in the nearby transport network was undertaken. The following was noted:

- <u>Solana Place</u>. 18m Circular cul-de-sac. 6 driveways, including driveways that service multiple dwellings.
- <u>Mawhera Avenue</u>. 14m 'T' hammerhead cul-de-sac. 5 driveways, including one driveway that services high-density flats.
- Melrose Court. 14m hybrid 'T'/ circular cul-de-sac. 3 driveways.
- <u>Eurella Avenue</u>. 13m widened 'triangle' cul-de-sac. 5 driveways.

In my opinion the addition of the proposed driveway will not be unusual based on the above findings. Many similar examples are available in the Greater Hobart area.

2. Vehicle Safety

Council raised road safety as an issue that would prevent the proposed development.

A quick review of crash history of the cul-de-sacs highlighted in Section 2 did not provide any indication that there is any road safety issues associated with the turning heads or driveways.

In this case the proposed driveway will be located at the opposite end of the 'Y' turning area and will effectively provide improved turning due to the removal of the hedge. The driveway will be separate and in clear view of the three existing driveways.

Given that each driveway will typically generate 1 vehicle per hour during peak periods, and vehicles entering and exiting the driveways will have clear vision of manoeuvring associated with the other driveways, then the conflict risk between vehicles is very low. The risks are further minimised considering the very low traffic volume (only traffic associated with the driveways within Cedar Court would be utilising the road) and very low vehicle speeds (due to the residential nature and dead-end construction of the road).

In my opinion there is no significant road safety risk associated with the addition of a new driveway in the cul-de-sac.

3. Footpath Extension

Council have stated that the footpath may be extended at some stage in the future. The existing footpath currently terminates near the proposed driveway location. In my opinion the footpath could be extended and incorporated into the proposed design of the driveway, noting that footpath construction is not required over a driveway cross-over.

4. Number of Vehicular Accesses

The existing access configuration of the dwelling consists of two driveways that form an entry and exit at the front of the dwelling. Effectively the two existing driveways function as a single driveway access with separated entry and exit.

It is not uncommon for dwellings to have multiple vehicular accesses, particularly properties with multiple street frontages, or properties that have rear access via a shared ROW. Whilst the subject site does not have multiple street frontages, Cedar Court wraps around the property and the proposed garage development provides vehicular access to the rear of the building that is not currently available.

5. Summary

Based on the above assessment it is my opinion that there are no significant issues that would prevent the construction of a new vehicular cross-over within the cul-de-sac of Cedar Court. Specifically:

- The construction of the existing cul-de-sac is not uncommon in urban environments. There are
 numerous examples in the nearby road network that have similar configurations and dimensions.
- Three driveways currently connect to the existing cul-de-sac. The proposed driveway would connect to the opposite end of the 'Y' cul-de-sac. The driveway would be highly visible to users of the existing driveways.

- The proposed driveway would improve manoeuvring within the cul-de-sac.
- There are no significant safety issues associated with the provision of a new driveway at the culde-sac on the basis of very low traffic volumes and vehicle speeds. There is minimal risk of conflict between users of the driveways.
- The construction of the proposed driveway does not preclude the future construction of a footpath. Provision could be made in the driveway design to accommodate future footpath connectivity if required.

Please contact me on 0437 366 040 if you require any further information.

Yours sincerely,

Keith Midson BE MTraffic MTransport FIEAust CPEng EngExec NER

DIRECTOR Midson Traffic Pty Ltd



Keith Midson Midson Traffic Pty Ltd 28 Seaview Avenue Taroona TAS 7053 0437 366 040

30th August 2021

Benn Turner Preston Lane Architects 60 Barrack St Hobart TAS 7000

Dear Benn,

1-7 CEDAR COURT - RESPONSE TO COUNCIL RFI

This letter has been prepared in response to Council's request for further information regarding the proposed garage development at the abovementioned address dated 3^{rd} August 2021.

Specifically this letter deals with the following matters within Council's RFI:

- PA2.1 Driveway design
- PA2.2 Pedestrian sight distance
- PA5.1 Car Parking Layout

The response to these matters are set out in the following sections.

1. PA2.1 – Design of Vehicular Accesses

The proposed driveway connects at the eastern termination of the cul-de-sac. The driveway location is shown in Figure 1.

The Acceptable Solution A1 of Clause E6.7.2(a) of the Planning Scheme states "*in the case of non-commercial vehicle access; the location, sight distance, width and gradient of an access must be designed and constructed to comply with section 3 – "Access Facilities to Off-street Parking Areas and Queuing Areas" of AS/NZS 2890.1:2004 Parking Facilities Part 1: Off-street car parking"*.

The requirements of AS2890.1 are set out in the following sections.



Figure 1 Cedar Court Driveway Location

Driveway Location

AS2890.1 defines locations where domestic driveways should not be placed in relation to intersections. In this case the driveway is not located in close proximity to a major road junction as defined by Figure 3.1 of AS2890.1.

The location of the driveway therefore complies with the requirements of 'driveway location' in the Acceptable Solution A1(a) of Clause E6.7.2 of the Planning Scheme.

Driveway Sight Distance

AS2890.1 requires 30 metres minimum sight distance along the frontage road for a domestic property access fronting onto a 40-km/h road (noting that vehicle speeds in Cedar Court are significantly lower than 40-km/h due to the termination of the road at the site's access – ie. all vehicles are slowing to stop or access driveways at the cul-de-sac head).

Sight distance is only relevant in one direction due to the driveway's location at the end of the cul-desac. The available sight distance is approximately 30 metres from the driveway along the road carriageway from the driveway.

The vehicle sight distance at the driveway therefore complies with the requirements of 'sight-distance' in the Acceptable Solution A1(a) of Clause E6.7.2 of the Planning Scheme.

Pedestrian sight distance

The assessment of pedestrian sight lines was undertaken in section 2 of this letter. The proposed driveway does not provide pedestrian sight triangles in accordance with AS2890.1 requirements. A risk assessment deemed the driveway to meet the requirements of Performance Criteria P1 of Clause E6.7.2 of the Planning Scheme.

Driveway Width

The minimum width of a domestic driveway is 3.0 metres in accordance with AS2890.1. The driveway width complies with this requirement.

The width of the driveway therefore complies with the requirements of 'width' in the Acceptable Solution A1(a) of Clause E6.7.2 of the Planning Scheme.

Gradient

The maximum gradient of a domestic driveway is 25% in accordance with AS2890.1 requirements. The driveway gradient does not exceed this value thereby complying with the gradient requirements of Acceptable Solution A1(a) of Clause E6.7.2 of the Planning Scheme.

AS2890.1 Driveway Assessment Summary

Based on the above assessment, the driveway design complies with all aspects of AS2890.1 requirements with the exception of pedestrian sight distance. The driveway was therefore assessed against the requirements of Performance Criteria P1 of Clause E6.7.2 of the Planning Scheme which states:

"Design of vehicle access points must be safe, efficient and convenient, having regard to all of the following:

- (a) avoidance of conflicts between users including vehicles, cyclists and pedestrians;
- (b) avoidance of unreasonable interference with the flow of traffic on adjoining roads;

(c) suitability for the type and volume of traffic likely to be generated by the use or development;

(d) ease of accessibility and recognition for users".

The following is relevant with respect to the proposed driveway:

- a. <u>Conflict avoidance</u>. As noted in the risk assessment, the risk of conflict between vehicles and vehicles or vehicles and pedestrians is extremely low, resulting in a 'low risk' environment.
- b. <u>Interference with traffic flow</u>. Traffic volumes at the proposed driveway location are very low and only relate to movements at property access at the head of the cul-de-sac. The peak generation of 1 vehicle per hour will not have any significant adverse impact on traffic flow in Cedar Court.
- c. <u>Suitability for type and volume of traffic</u>. The proposed driveway will be located in a residential road environment that is suitable for property access, noting that no through traffic is located at the head of the cul-de-sac.
- d. <u>Ease of Accessibility and Recognition for Users</u>. The driveway will be clearly visible and its function will be easily identifiable for users and neighbouring properties.

Based on the above, the driveway meets the requirements of Performance Criteria P1 of Clause E6.7.2 of the Planning Scheme.

Council have requested in their RFI:

"Scaled and dimensioned design drawing(s) showing the Design of Vehicular Accesses achieves the objective of clause E6.7.2, of the Hobart Interim Planning Scheme 2015.

To satisfy the relevant Acceptable Solution(s) for the above mentioned clause(s), the scaled and dimensioned design drawings must include:

- Plan view showing the dimensioned; layout of the proposed access driveway(s) within the road reserve up to the property boundary, access driveway width at the property boundary, any access gate's dimensions (i.e. width, height, transparency) including clearway width, and the dimensions (i.e. height, transparency) of any fencing or screening within 2.0m either side of the access driveway.
- Cross section(s), and Longitudinal section(s), of the proposed chainage profile(s) (e.g. centreline path, wheel paths, swept paths) along the access driveway (i.e. roadway, vehicular crossing, foot/front of path, back of path); clearly showing the gradients and elevations of the full finished surface level, including existing natural surface levels and proposed cutfill depths, within the road reservation.
- Plan view clearly detailing standard swept paths for a B99 vehicle, for both lefthand and righthand turns, completely entering and exiting the lot, respectively, by way of the designed vehicular access exclusively, swept paths (turn radii) shall be contained within the property's street frontage; defined by extension of the lot side boundaries to the road reservation.

Where the design drawing(s) do not satisfy the relevant Acceptable Solution(s), please provide design documentation prepared by a suitably qualified person for assessment under the relevant Performance Criteria".

I understand that the plan view showing dimensional layout of the access driveway is being provided to Council by Preston Lane Architects.

The Australian Standards, AS2890.1, *Off-Street Car Parking*, 2004, provides the requirements of the type of vehicles used in parking areas. There are two 'car' vehicle types contained in AS2890.1: B85 and B99 vehicles. These vehicles represent the 85th and 99th percentile cars in the Australian fleet respectively.

AS2890.1 states the following with respect to B99 vehicles:

"Design dimensions based on the B99 vehicle are required at all locations where failure of a vehicle to be able to physically fit into the facility would occasion intolerable congestion and possible hazard. Such locations shall include all access driveways, ramps and circulation roadways, unless there are special circumstances of severe space limitation coupled with relatively low traffic volumes in which case the B85 vehicle dimensions may be used".

In this case the development proposal is residential and will not provide public car parking. With a peak generation of 1 vehicle per hour coupled with extremely low traffic generation at the end of the cul-desac of Cedar Court it would not be possible to create 'intolerable' congestion. For this reason the B99 is not the appropriate design vehicle to test the swept paths of the parking areas of the proposed development. The B85 vehicle is therefore the appropriate design vehicle for the proposed development.

Despite this, swept paths of a B99 vehicle were tested at the site's driveway using Autodesk Vehicle Tracking 2018 software.

The swept paths clearly demonstrate that a B99 vehicle can enter and exit the proposed driveway utilising the boundaries of the site. This is shown in Figure 2 for the entry manoeuvre. The exit manoeuvre is largely similar with the B99 vehicle able to complete the manoeuvre wholly contained in the property boundaries. Note that left turn and right turn manoeuvres are not relevant as the driveway is located at the head of a cul-de-sac.





2. PA2.2 – Pedestrian Sight Lines

Council have requested in their RFI:

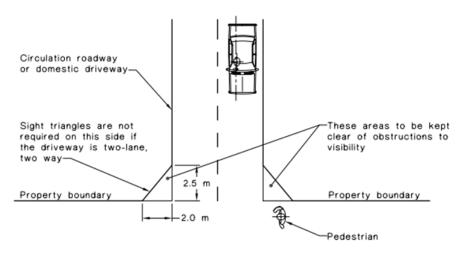
"To satisfy the relevant Acceptable Solution(s) for the above mentioned clause(s), the scaled and dimensioned design drawings must include:

• Plan and Elevation views showing, sight distance to pedestrians (i.e. pedestrian sight triangles, showing minimum sight lines for pedestrian safety, entirely within the subject lot) remain unobstructed 2.0m either side of the vehicular access circulation roadway or driveway at the property boundary, in accordance with AS/NZS 2890.1:2004 Section 3.2.4;

Where the design drawing(s) do not satisfy the relevant Acceptable Solution(s), please provide design documentation prepared by a suitably qualified person for assessment under the relevant Performance Criteria".

Section 3.2.4(b) of AS2890.1 provides the requirements for sight distance to pedestrians: "*clear sight lines as shown in Figure 3.3 shall be provided at the property line to ensure adequate visibility between vehicles leaving the car park or domestic driveway and pedestrians on the frontage road*". Figure 3.3 is reproduced in Figure 3.

Figure 3 AS2890.1 Pedestrian Sight Line Requirements



DIMENSIONS IN METRES

In this case it would not be possible to provide pedestrian sight distance splays in accordance with AS2890.1 requirements without modifications to fence structures.

The driveway design is similar to other domestic driveways in the nearby area. The following points are relevant with respect to the operation of the domestic driveway:

- The driveway for a residential property and is curved near its connection with Cedar Court. Speeds will therefore be very low for any vehicle exiting the site. AS2890.1 provides requirements for <u>all</u> driveway types (ie. domestic and commercial), and in many cases it could be expected that vehicles may be travelling at moderate speed as they would be able to accelerate along a greater distance than possible in this case. It is typically unusual for residential driveways to provide pedestrian sight triangles at their connection with the frontage road.
- Pedestrian volumes are extremely low in Cedar Court. There is currently no footpath extending beyond the proposed driveway and no pedestrian generating land uses nearby other than residential property within the cul-de-sac. Council have requested the footpath be extended to the end of the hammer head. The design has incorporated this to take place. With the proposed driveway being located at the end of a cul-de-sac, there is very little activity (pedestrians and vehicles). Pedestrian activity at the proposed driveway access only relates to access to the neighbouring property located at the termination of the cul-de-sac. The exposure to pedestrian movements at the access is therefore very low compared to busy city environments for example.
- The frequency of use of the domestic driveway is very low. Only accessing a single dwelling, the traffic generation of the access would be in the order of 8 vehicle movements per day with a peak of 1 vehicle per hour. The exposure of vehicular manoeuvres at the access is therefore very low compared to commercial driveway accesses busy city environments.

A risk assessment approach was therefore used in the assessment of the road safety aspects associated with the new driveway.

A road safety assessment was undertaken on the driveway access in relation to potential pedestrian conflict. The assessment was based on the Austroads, *Guide to Road Safety Part 6A: Implementing Road*

Safety Audits, 2019. This process identifies risks in the transport network and identifies potential risk treatments.

The risk assessment associated with the road safety assessment was done with reference to the Australian Standard AS/ NZS ISO 31000, Risk Management – Principles and Guidelines, 2018. The risk analysis matrix used in this report is shown in Figure 4.

Figure 4 Risk Analysis

			PROBABILITY		
윤	Highly Likely	Likely	Occasionally	Unlikely	Highly Unlikely
ZA	1	2	3	4	5
H	Repeated	May Occur	May Occur	Not Very Likely	Very Unlikely to
	Occurrence	Several Time	Sometimes	to Occur	Occur

			CONSEQUENCE		
	Catastrophic	Fatal	Serious	Marginal	Negligible
8	Α	В	С	D	E
HAZARD					Superficial
Η					Injury or
	Mulitple Loss of				Property
	Life	Single Death	Severe Injury	Minor Injury	Damage

		1	2	3	4	5
CON	ISEQUENCE	Highly Likely	Likely	Occasionally	Unlikely	Highly Unlikely
Α	Catastrophic	Extreme	Extreme	High	High	High
В	Fatal	Extreme	High	High	Medium	Medium
С	Serious	High	High	Medium	Medium	Medium
D	Marginal	High	Medium	Medium	Low	Low
E	Negligible	Medium	Medium	Low	Low	Low

In this case the potential for conflict between a pedestrian and vehicle exiting the driveway at 1 Cedar Court was assessed. The following points are relevant:

- Traffic generation at the access is very low with a peak of 1 vehicle per hour. Pedestrian movements past the access are extremely infrequent. The likelihood of conflict is therefore classified as 'Highly Unlikely'.
- The consequences of collision between pedestrian and exiting vehicle are relatively low. A vehicle
 exiting the driveway would likely be travelling less than 5-km/h, which is unlikely to result in
 serious injury. The consequence of collision would therefore be classified as 'Marginal' to
 'Negligible'.
- The corresponding hazard risk associated with pedestrian/ vehicular conflict at this location would be classified as 'Low'.

Based on the above assessment I deem the driveway design to be appropriate and safe for its intended use.

3. PA5.1 – Layout of Parking Areas

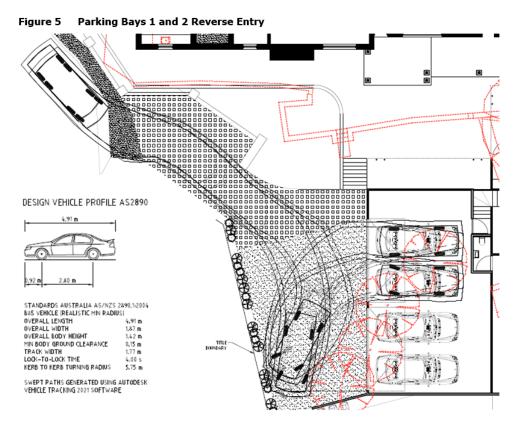
The proposed on-site car parking consists of 4 garage spaces. Access to the parking spaces is via two garage doors with parking at 90-degrees to the driveway.

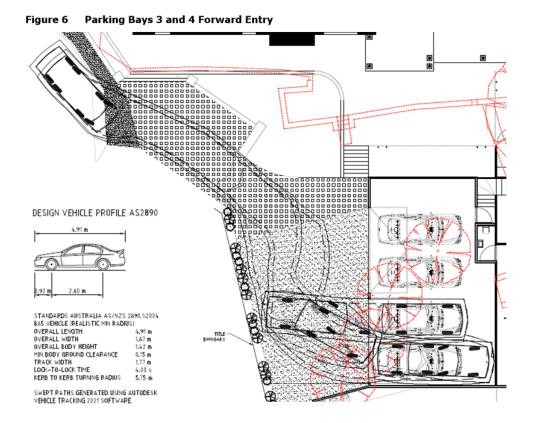
Council have requested details of the parking areas in terms of construction and design. The request included B85 vehicle swept paths of entry and exit manoeuvres for all car parking spaces. Figure 5, Figure 6, Figure 7 and Figure 8 demonstrate B85 vehicle swept paths into and out of the four on-site car parking spaces. Note that whilst a B99 vehicle is not required (the B85 vehicle is the appropriate design vehicle for the residential development).

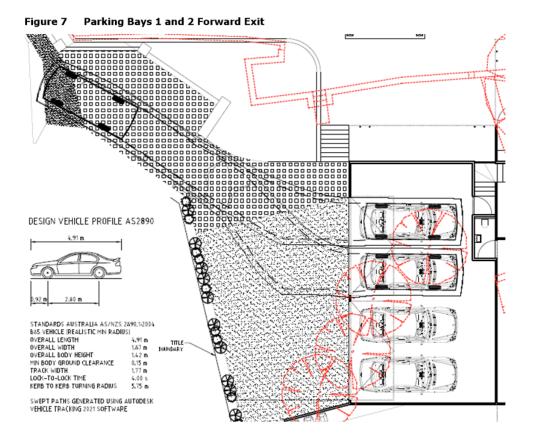
The B85 swept paths clearly demonstrate that all vehicles can enter and exit the parking spaces.

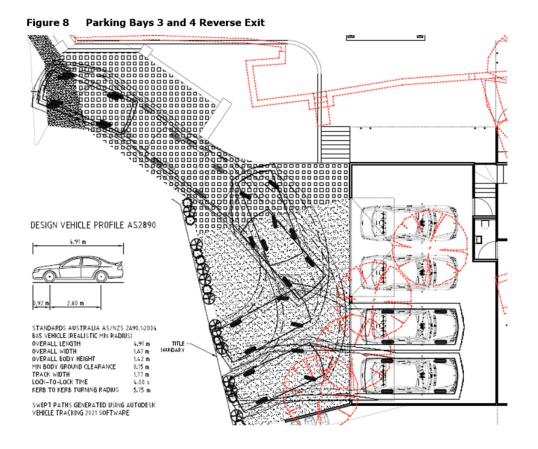
The dimensions of the parking and manoeuvring areas complies with the requirements of AS2890.1 for User Class 1A (residential, domestic and employee parking), which requires minimum dimensions as follows:

- Space width 2.4m
- Space length 5.4m
- Aisle width 5.8m









Please contact me on 0437 366 040 if you require any further information.

Yours sincerely,

Keith Midson BE MTraffic MTransport FIEAust CPEng EngExec NER

DIRECTOR Midson Traffic Pty Ltd



MACHOS PTY LTD T/A NU-JET ABN: 26 122 088 368 PO BOX 143, ROKEBY TAS 7019 4/73 DROUGHTY POINT RD, ROKEBY TAS 7019 PH: 03 6247 8777 Email: admin@nujet.com.au Website: www.nujet.com.au

21 September 2021

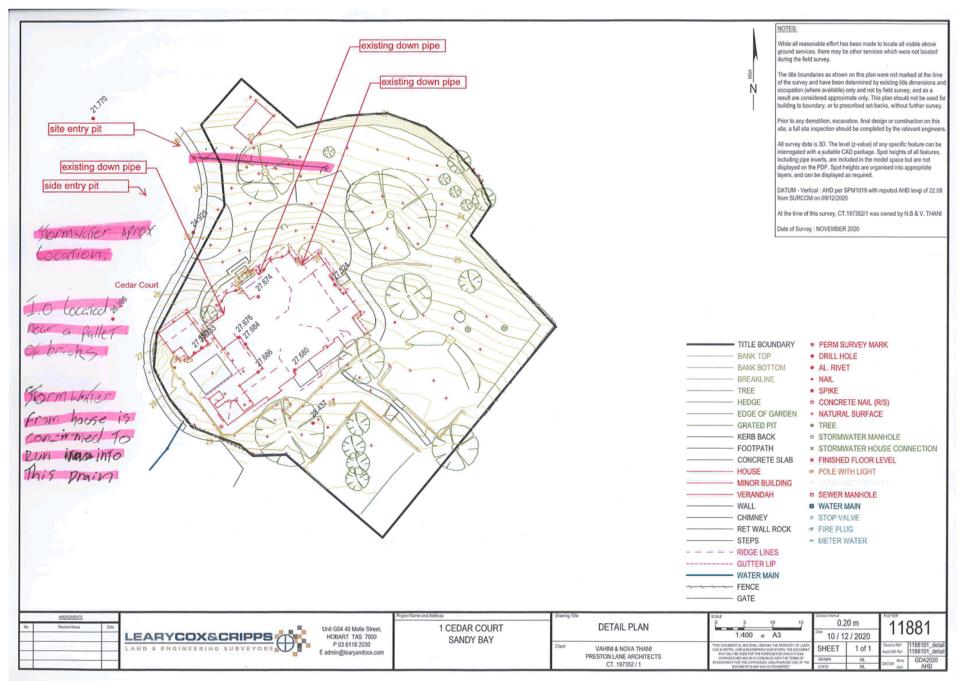
Nujet attended the site of 1 Cedar Court, Sandy Bay on 18/8/2021 to review the existing storm water connection. Based on the attached WinCan report it is our understanding the storm water of 1 Cedar Court, Sandy Bay is connected to the storm water main as shown on the attached sketch.

Thank you for engaging Nu-Jet to provide this service.

Kind regards,

Administration

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Page 346 ATTACHMENT B



RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME	FOLIO
197352	1
EDITION	DATE OF ISSUE
5	04-Nov-2020

SEARCH DATE : 25-May-2021 SEARCH TIME : 03.00 PM

DESCRIPTION OF LAND

City of HOBART Lot 1 on Plan 197352 Derivation : Part of 9A-2R-38.1/2Ps Gtd to A Andrew Prior CT 3382/11

SCHEDULE 1

M851469 TRANSFER to NOVA BHARATH THANI and VAHINI THANI Registered 04-Nov-2020 at 12.01 PM $\,$

SCHEDULE 2

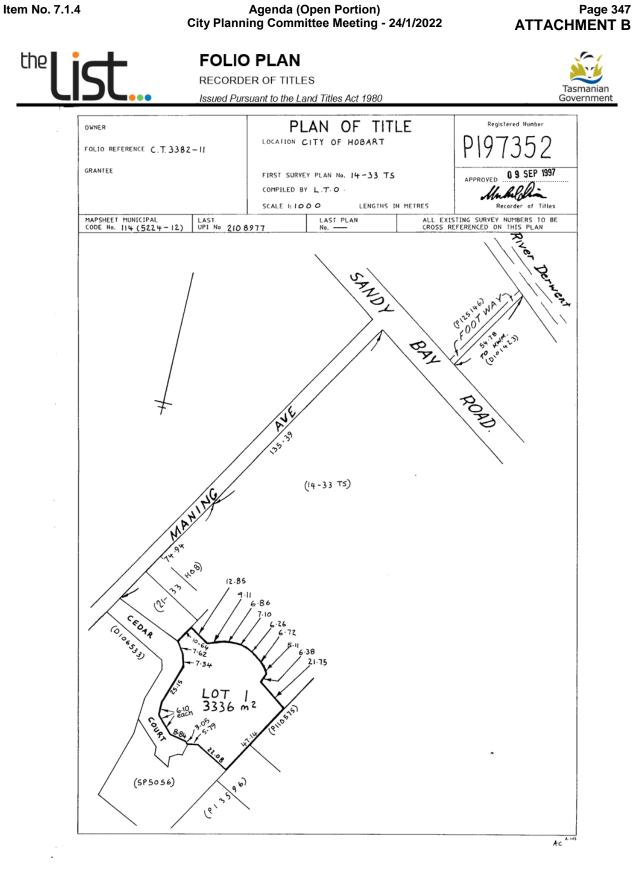
Reservations and conditions in the Crown Grant if any BENEFITING EASEMENT: a right of way or passage for Henry Allport his heirs and assigns and all persons by his and their permission to go return pass and repass in through over along and upon the strip of land marked "Footway" on Plan No. 197352

E239393 MORTGAGE to Australia and New Zealand Banking Group Limited Registered 04-Nov-2020 at 12.02 PM

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Page 1 of 1 www.thelist.tas.gov.au



 Search Date: 25 May 2021
 Search Time: 03:00 PM
 Volume Number: 197352
 Revision Number: 02
 Page 1 of 1

 Department of Primary Industries, Parks, Water and Environment
 www.thelist.tas.gov.au



Enquiries to: City Planning Phone: (03) 6238 2715 Email: coh@hobartcity.com.au

20 July 2021

Nova Thani 1 Cedar Court SANDY BAY TAS 7005 mailto: novathani@gmail.com

Dear Sir/Madam

1 - 7 CEDAR COURT, SANDY BAY & ADJACENT ROAD RESERVE WORKS IN ROAD RESERVE NOTICE OF LAND OWNER CONSENT TO LODGE A PLANNING APPLICATION - GMC-21-42

Site Address:

1 – 7 Cedar Court, Sandy Bay

Description of Proposal:

Partial Demolition, Alterations, Extension, Front Fencing, Garage, Alterations to Access, and Associated Works/Works in Road Reserve

Applicant Name:

Nova Thani

PLN (if applicable):

PLN-21-388

I write to advise that pursuant to Section 52 of the *Land Use Planning and Approvals Act 1993*, I grant my consent on behalf of the Hobart City Council as the owner/administrator of the above land for you to make application to the City for a planning permit for the development described above and as per the attached documents.

Please note that the granting of the consent is only for the making of the application and in no way should such consent be seen as prejudicing any decision the Council is required to make as the statutory planning authority.

Hobart Town Hall 50 Macquarie Street Hobart TAS 7000 Hobart Council Centre 16 Elizabeth Street Hobart TAS 7000 City of Hobart GPO Box 503 Hobart TAS 7001 T 03 6238 2711 F 03 6234 7109 E coh@hobartcity.com.au W hobartcity.com.au **f** CityofHobartOfficial

ABN 39 055 343 428 Hobart City Council This consent does not constitute an approval to undertake any works and does not authorise the owner, developer or their agents any right to enter or conduct works on any Council managed land whether subject to this consent or not.

If planning approval is granted by the planning authority, you will be required to seek approvals and permits from the City as both landlord, land manager, or under other statutory powers (such as other legislation or City By-Laws) that are not granted with the issue of a planning permit under a planning scheme. This includes the requirement for you to reapply for a permit to occupy a public space under the City's Public Spaces By-law if the proposal relates to such an area.

Accordingly, I encourage you to continue to engage with the City about these potential requirements.

Yours faithfully

Whyung

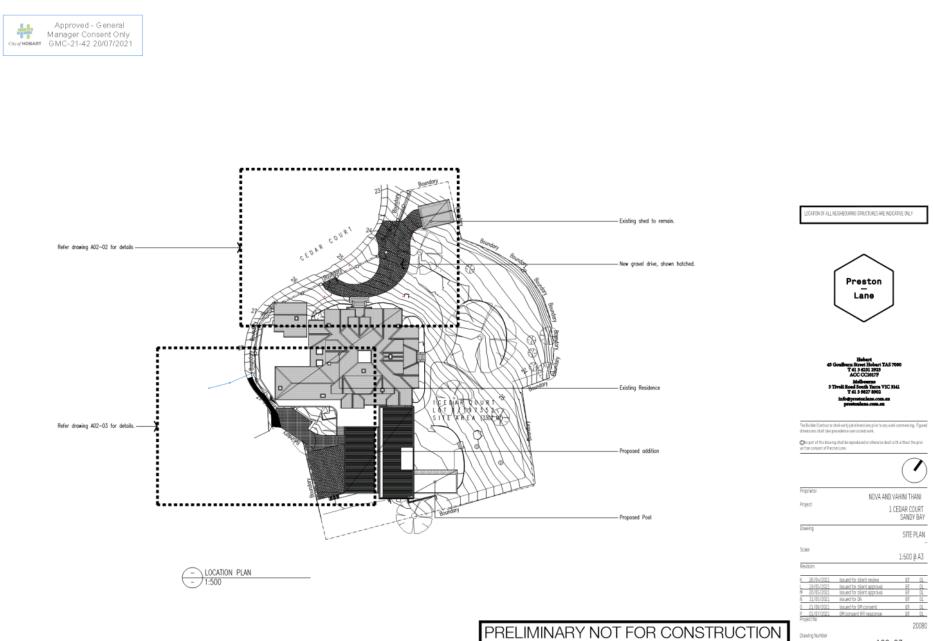
(Kelly Grigsby) Chief Executive Officer being the General Manager as appointed by Council pursuant to section 61 of the Local Government Act 1993 (Tas)

Relevant documents/plans:

Plans - Preston Lane

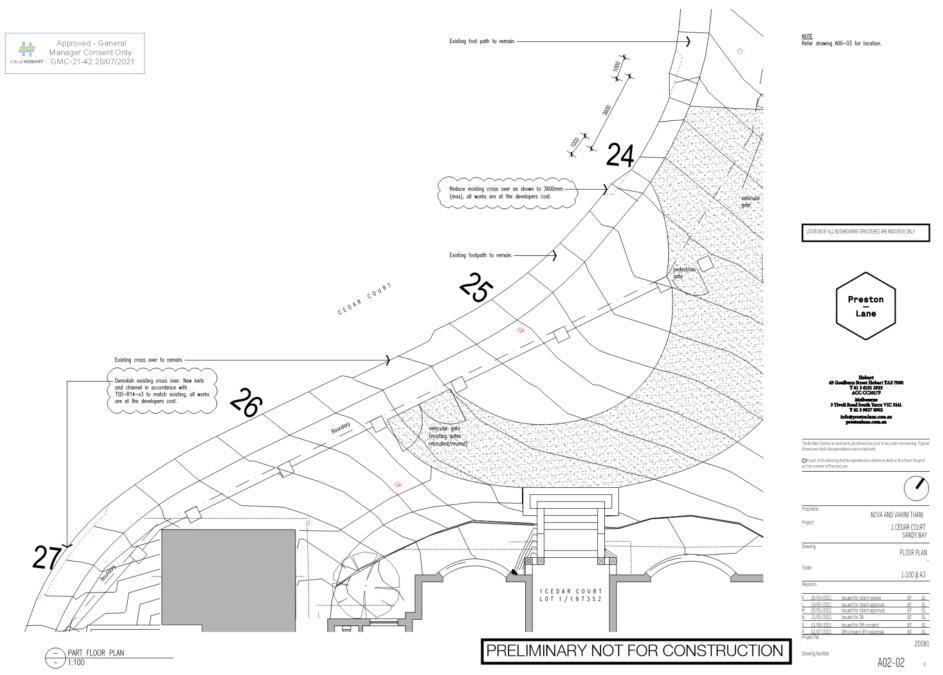
Hobart Town Hall 50 Macquarie Street Hobart TAS 7000 Hobart Council Centre 16 Elizabeth Street Hobart TAS 7000 City of Hobart GPO Box 503 Hobart TAS 7001 T 03 6238 2711 F 03 6234 7109 E coh@hobartcity.com.au W hobartcity.com.au **f** CityofHobartOfficial

ABN 39 055 343 428 Hobart City Council

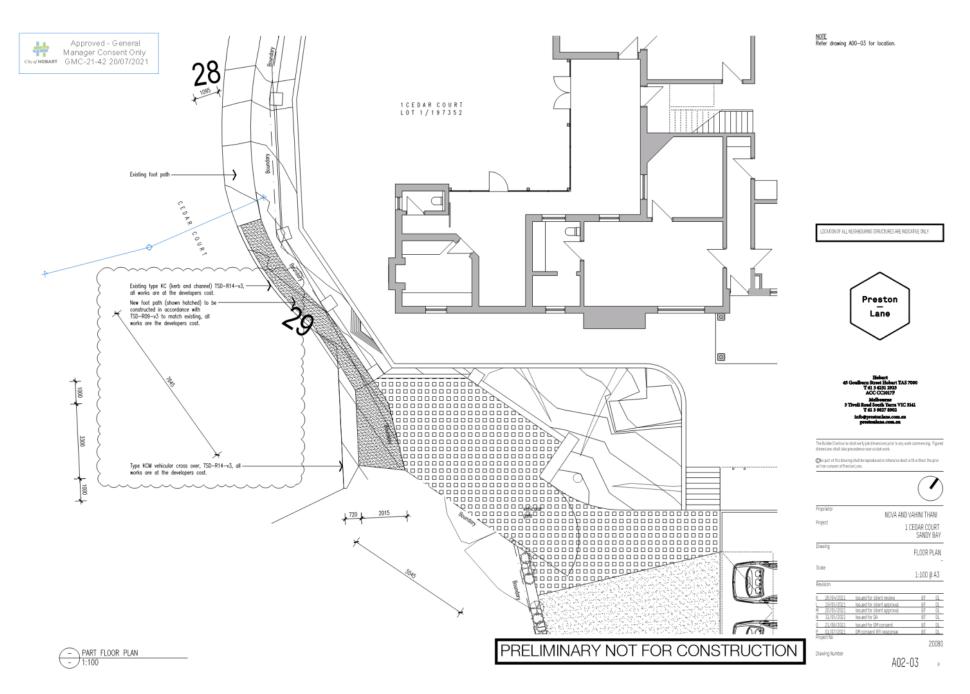


A00-03 P

Page 351 ATTACHMENT B



Page 352 ATTACHMENT B



Planning: #234012

Property

1-7 CEDAR COURT SANDY BAY TAS 7005

People

Applicant *	
Nova Thani	
1 Cedar Court	
SANDY BAY TAS 7005	
0403317536	
novathani@gmail.com	
Owner	
Nova Thani	
1 Cedar Court	
SANDY BAY TAS 7005	
0403317536	
novathani@gmail.com	
Entered By DANIEL LANE	
DANIEL LANE 45 GOULBURN STREET	
HOBART TAS 7000	
03 6231 2923	
info@prestonlane.com.au	

Use

Single dwelling

Details

Have you obtained pre application advice?

• TYGD please provide the pre application advice number eg PAE-17-xx

Itclen Ayers
Are on applying for permitted visitor accommodation as defined by the blate Government Visitor
Are on applying for permitted visitor accommodation of definition. If you are not the owner of the
property you MUST include signed confirmation from the owner that they are aware of this application.

• No

• The the application for SIGNAGE ONLY? If yes, please enter \$0 in the cost of development, and you must enter the

Page 354 ATTACHMENT B

number of signs under Other *	Details below.		
• _No			
If this application is related to	an enforcement action pleas	se enter Enforcement Numbe	r
Detalls			
What is the current approved	i use of the land / building(s)?	7	
Residential			
Please provide a full descrip swimming pool and garage)	tion of the proposed use or d	evelopment (i.e. demolition i	and new dwelling,
Alterations and additions to			
Estimated cost of developme	ent		
850000.00			
Existing floor area (m2)	Proposed floor area	(m2) Site area (m	2)
545.00	775.00	3302	
Carparking on Site		N/A	
Total parking spaces	Existing parking spaces	Other (no selection	
4	2	chosen)	
Other Details			
Does the application include	signage?		
No			
How many signs, please ent involved in this application?	er 0 if there are none		
0			
Tasmania Heritage Reg is this property on the Tasma Register?			
Documents			
Required Documents			
Title (Folio text and Plan and	Schedule of Easements)		
Title combined.pdf Plans (proposed, existing)			
20080 210608 issued for DA.	ndr.		
Covering Letter	pen.		
20080 210607 1 Cedar Court	 Supporting Statement Letter.p 	odr	
Supporting Documents			
Traffic Impact Assessment I Cedar Court Expert Opinior	o.pdf		



Tasmanian Heritage Council

Tasmanian Heritage Council GPO Box 618 Hobart Tasmania 7000 Tel: 1300 850 332 enquiries@heritage.tas.gov.au www.heritage.tas.gov.au

PLANNING REF: P THC WORKS REF: 6 REGISTERED PLACE NO: 3 FILE NO: 0 APPLICANT: N DATE: I

PLN-21-388 6640 3428 07-21-33THC Nova Thani 10 January 2022

NOTICE OF HERITAGE DECISION

(Historic Cultural Heritage Act 1995)

The Place: Proposed Works: 'The Gables', I Cedar Court, Sandy Bay. Partial demolition, alterations and extension, new building, front fencing, solar panels and landscaping work.

Under section 39(6)(b) of the Historic Cultural Heritage Act 1995, the Heritage Council gives notice that it consents to the discretionary permit being granted in accordance with the documentation submitted with Development Application PLN-21-388, advertised on 17/12/2021, subject to the following conditions:

1. Any concrete floors for the enclosed verandah and the new building must be detailed such that the junctions between the slab and existing masonry walls are constructed in a manner that:

(i) Does not result in the transfer of moisture or the introduction of soluble salts to the existing masonry walls; and,

(ii) Incorporates a porous strip of minimum 300mm width alongside the base of the masonry wall, enabling the evaporation of moisture from the ground at the base of the wall; or other detail having similar effect, to the satisfaction of Heritage Tasmania's Works Manager.

Reason for condition

To avoid any circumstances that may cause or exacerbate rising damp in original masonry walls of the heritage building.

2. The existing timber lining of the ceiling of the original dining room must be retained.

<u>Reason for condition</u>. To ensure significant fabric of the place is conserved.

3. The mature tree located between the residence and the new driveway area (Site Plan A00-02 notated as 'exTree' to the south-east of the existing rumpus room) must be retained and protected from damage during the works. Any new landscaping treatment located within the

drip line of the tree, including the proposed driveway, must be designed and constructed in a manner that promotes the tree's continued health and vigour.

Reason for condition

To ensure that culturally significant trees are not compromised by the development, consistent with the appropriate outcomes in Section 13 of the Works Guidelines.

Please ensure the details of this notice, including conditions, are included in any permit issued, and forward a copy of the permit or decision of refusal to the Heritage Council for our records.

Should you require clarification of any matters contained in this notice, please contact Heritage Tasmania's Works Manager, Ian Boersma, on 0429 979 586 or 1300 850 332.

lan Boersma Works Manager – Heritage Tasmania Under delegation of the Tasmanian Heritage Council

Notice of Heritage Decision 6640, Page 2 of 2



Submission to Planning Authority Notice

Council Planning Permit No.	PLN-21-388		Council notice date	26/07/2021
TasWater details	; -			
TasWater Reference No.	TWDA 2021/01237-HCC		Date of response	27/07/2021
TasWater Contact	Jake Walley	Phone No.	0467 625 805	
Response issued	to			
Council name	CITY OF HOBART			
Contact details	coh@hobartcity.com.au			
Development de	tails			
Address	1 CEDAR CT, SANDY BAY		Property ID (PID)	5620989
Description of development	Alterations and additions to exis	ting dwelling		
Conditions				
	Water and Sewerage Industry Act 2 velopment and no conditions are im	. ,	tion 56P(1) TasWater d	oes not object to
Advice				
General				
	on TasWater development standard vater.com.au/Development/Develop	, .	rds_	
For application fo	orms please visit <u>http://www.taswa</u>	ter.com.au/De	evelopment/Forms	
Declaration				
The drawings/do Authority Notice	cuments and conditions stated abov	ve constitute T	asWater's Submission	to Planning
Authorised by Adapto Jason Taylor Development As	sessment Manager			
TasWater Contac				
	6992	Email	development@tasw	ater.com.au
Mail GI	PO Box 1393 Hobart TAS 7001	Web	www.taswater.com.	au

Uncontrolled when printed

Application Referral Cultural Heritage - Response

From:	Sarah Waight
Recommendation:	Proposal is acceptable subject to conditions.
Date Completed:	
Address:	1 - 7 CEDAR COURT, SANDY BAY ADJACENT ROAD RESERVE
Proposal: Partial Demolition, Alterations, Extens Fencing, Garage, Alterations to Acce Associated Works	
Application No: PLN-21-388	
Assessment Officer:	Helen Ayers,

Referral Officer comments:

This application is for demolition and an extension to a place that is heritage listed in table E13.1 of the Historic Heritage Code of the Scheme.

The place is known as 'The Gables' and was designed by Melbourne architect Chris Cowper and constructed in 1911. It is a significant building and was the home of Henry Allport for some of its time. Henry Allport is well known for various reasons including the fact that he bequeathed the Allport collection of decorative arts, rare books and art and other items to the people of Tasmania in 1965, a collection that remains one of the most generous in Tasmania's short European history. This collection was once kept in this house and items including the chandeliers from the house are now part of the Allport Library and Museum of Fine Arts.

The house has numerous original features and is a one of the most extravagant examples of Federation Queen Anne architecture in Hobart, with numerous gables, terra cotta roof, ornate ridge tiles and gargoyle finials, tuck pointed brickwork, bay windows, shingles, prominent and highly ornate chimneys. Inside, the house has extensive and grand wood paneling, plate rails, extensive timber paneled doors and ornate ceiling details as well as Art Nouveau detailing on door handles and tiles. Surprisingly, the internal staircase is relatively modest and a close examination of it indicates that it has been modified in recent decades with the introduction of balusters with love hearts a decorative feature that is not consistent with other timber detailing. Some other alterations that were made in the 1970s and 1980s include altered tiling in the bathrooms, new fixtures and fittings in the kitchen and bathroom. The land (3302m2) on which the house sits once had a driveway from Maning Ave. It was a large internal and private home with expansive hedges (these are specifically heritage listed) with a tennis court to the rear. The block was subdivided in the post-war period (date unknown, but possibly 1960s/70s) with a cul-de-sac that extends around the side of the house. The front entrance of the house faces Cedar Court and has no front fence. The western side elevation has a recent 1.8 m high paling fence and is a side boundary fence.

This proposal follows on from a previous and earlier application and permit issued (PLN-17-613) for internal and external changes including the reconfiguration of rooms and connections between rooms and the introduction of new elements. Since that permit was issued, the property has changed hands and some of the already approved changes have not proceeded. A number of conditions were included in the permit issued. HER s3 and HER s4 must be included on any permit issued. This application has some minor demolition, but the vast majority of the application is for new work, a new front fence, a large rear extension for a new kitchen, 4 car garage, gym, store and the enclosure of an existing/original verandah of the heritage part of the house. Also part of the application is a new rear vehicular gate and driveway, courtyard and minor landscaping, as well as the resurfacing of the front semi-circular driveway. It should be noted that the new kitchen which was relocated as part of the PLN-17-613 application is to be demolished and that room will be a TV room.

The following provisions of the Historic Heritage Code of the Scheme apply; E13.7.1 P1 - demolition and E13.7.2 P1, P2, P3, P4 and P5 - new work - extension and front fencing.

Clause E13.7.1 P1 states:

Demolition must not result in the loss of significant fabric, form, items, outbuildings or landscape elements that contribute to the historic cultural heritage significance of the place unless all of the following are satisfied;

(a) there are, environmental, social, economic or safety reasons of greater value to the community than the historic cultural heritage values of the place;

(b) there are no prudent and feasible alternatives;

(c) important structural or façade elements that can feasibly be retained and reused in a new structure, are to be retained;

(d) significant fabric is documented before demolition.

Assessment:

Demolition involves the 2018 kitchen, the external south-east wall of the existing dining room, the timber paling boundary fence (installed in 2018), stone retaining walls, steps, concrete retaining wall (to remnants of rear tennis court) and rear elements of landscaping including trees.



External wall to be demolished between the existing dining and new kitchen.

The proposed demolition relates to what was a glazed flower room or conservatory, which was converted to a kitchen and more recently as a dining room. Demolition is proposed to remove the wall shown in the above image to allow for connection through to the new kitchen and garage wing and will involve the removal of brick, sandstone and glazing. Although there is no concern about the removal of the sandstone as this is later infill from the post Allport era the demolition of the brick is unfortunate, particularly given the intact state of the house as a self-contained large house with no accretions or additions. As a particular large house to start with, it is difficult as such to conceive that any addition is required. However, this application must be assessed against the relevant provisions and determine if the demolition results in the loss of heritage values. In regard to the location of the proposed demolition, it is to the rear elevation, part of the functional, rather than dress circle part of the house which is potentially the most logical or rational location for a connection to another building/extension should one be needed. The retention of the character of red ochre and black tuck pointing brick work is considered appropriate. It is considered that a condition of permit be included to ensure that its original wall finishes and details are retained.

The remnant concrete foundations of the tennis court and other sandstone elements of walls and steps will be demolished to make way for the large extension to the rear. The tennis court has been subsumed by the the creation of the Cedar Court cul-de-sac subdivision and and subsequent new house at 9 Cedar Court. Other sandstone features in the garden are from the era of the house but its positioning and the techniques employed suggest that it has been repositioned over the course of the last sixty years. It is recommended that all sandstone and red brick from the demolished low retaining wall at the rear, remain on site and be reused in landscaping. This can be achieved by a condition of permit.

New work

The new work includes:

- new single storey extension and addition to the south east of the original house, built over two levels for a four car garage, kitchen, mud room, swimming pool, store and gym etc, associated vehicle hard stand and gates and driveway and footpath.
- new skylight within the verandah to the south west part of the original house.
- new front fence and side fence

The new proposal must be assessed against the following clauses:

E13.7.2 P1

Development must not result in any of the following:

(a) loss of historic cultural heritage significance to the place through incompatible design, including in height, scale, bulk, form, fenestration, siting, materials, colours and finishes;
 (b) substantial diminution of the historic cultural heritage significance of the place through loss of significant streetscape elements including plants, trees, fences, walls, paths, outbuildings and other items that contribute to the significance of the place.

E13.7.2 P2

Development must be designed to be subservient and complementary to the place through characteristics including:

(a) scale and bulk, materials, built form and fenestration;

- (b) setback from frontage;
- (c) siting with respect to buildings, structures and listed elements;
- (d) using less dominant materials and colours.

E13.7.2 P3

Materials, built form and fenestration must respond to the dominant heritage characteristics of the place, but any new fabric should be readily identifiable as such.

E13.7.2 P5

New front fences and gates must be sympathetic in design, (including height, form, scale and materials), to the style, period and characteristics of the building to which they belong.

Assessment:

The proposed front fence is a stucco and painted finished brick pier with a wrought iron infill sections that take their design cues from the existing metal gates which are being relocated to the north elevation. The colour of the paint is described as 'calf skin' a light-mid brown grey colour, no doubt chosen to tie in with the new colour scheme to the house. The fence piers have a maximum height of approximately 2.3 metres and minimum of 1.8 metres around the full extent of the proposed fence. The plinth has a height of approximately 0.3 metres. As such, the fence does not follow the convention of a lower fence at the front allowing the house to be shown off to its full advantage in a traditional fashion. In this instance, the proposed fence is considered too high for the setting although the proposed design, which takes its cues from the existing metal gate, is a valid approach. It is appropriate for a condition of permit to reduce the height of the piers on the front fence as shown in the west elevation and north elevation to 1.5 metres. This can be achieved as a condition of permit.

The existing semi-circular driveway is being retained, and while the existing plans indicate that this driveway will not be used for parking, the proposed configuration indicates that it will still remain as such. The only change is the resurfacing of the semi-circular driveway from pavers to asphalt and concrete to the rear. A condition of permit to specify the colour of the concrete to the rear is appropriate.

The extension to the rear, although large in footprint, is separated by a recess allowing the corner window of the existing dining room to remain. The garage and kitchen extension is over

Page 362 ATTACHMENT C

two levels, the garage sited higher on the 'tennis court' level. Both are box-like and finished in stucco and painted brickwork and red brick with white steel window frames. This approach is typical of the output of this designers in that there is the production of a contemporary, minimalist and sleek modern product. In this regard it does not seek to emulate or replicate the exuberant architecture of the Gables.

The proposal shows a limestone strip separating the original rear verandah and the new courtyard. This is acceptable, but greater clarity is required to ensure that the step up to the verandah remains. This can be achieved by a condition of permit.



Existing rear verandah with step up from existing paving.

The proposal with appropriate conditions of permit satisfies the above provisions of the Historic Heritage Code of the Scheme.

Sarah Waight Senior Cultural Heritage Officer 11 Jan 2022

7.1.5 30 MCROBIES ROAD, SOUTH HOBART - OUTBUILDING (STORAGE SHED) PLN-21-492 - FILE REF: F22/4022

Address:	30 McRobies Road, South Hobart
Proposal:	Outbuilding (Storage Shed)
Expiry Date:	14 February 2022
Extension of Time:	Not applicable
Author:	Mark O'Brien

RECOMMENDATION

That pursuant to the *Hobart Interim Planning Scheme 2015*, the Council approve the application for outbuilding (storage shed) at 30 McRobies Road, South Hobart 7004 for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-492 - 30 MCROBIES ROAD SOUTH HOBART TAS 7004 - Final Planning Documents, except where modified below.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice:

Under section 23 of the Urban Drainage Act 2013 it is an offence

for a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

- Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and maintained until all areas of disturbance have been stabilised or re-vegetated.

Advice:

For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations, codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016.* Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the Land Use Planning and Approvals Act 1993.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act* 2016, *Building Regulations* 2016 and the National Construction Code. Click here for more information.

STORMWATER

Please note that in addition to a building and/or plumbing permit, development must be in accordance with the Hobart City Council's Infrastructure By law. Click here for more information.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

Attachment A:	PLN-21-492 - 30 MCROBIES ROAD SOUTH
	HOBART TAS 7004 - Planning Committee or Delegated Report I 🛱
Attachment B:	PLN-21-492 - 30 MCROBIES ROAD SOUTH
	HOBART TAS 7004 - CPC Agenda Documents
Attachment C:	PLN-21-492 - 30 MCROBIES ROAD SOUTH HOBART TAS 7004 - Planning Referral Officer Environmental Development Planner Report I 🖀



APPLICATION UNDER HOBART INTERIM PLANNING SCHEME 2015

City of HOBART	
Type of Report:	Committee
Council:	24 January 2022
Expiry Date:	14 February 2022
Application No:	PLN-21-492
Address:	30 MCROBIES ROAD , SOUTH HOBART
Applicant:	(TIIFRENO BUILDERS)
	PO Box 302
	PO Box 302
Proposal:	Outbuilding (Storage Shed)
Representations:	Zero
Performance criteria:	Potentially Contaminated Land Code; Landslide Code; Waterway and Coastal Protection Code

1. Executive Summary

- 1.1 Planning approval is sought for Outbuilding (Storage Shed) at 30 Mcrobies Road, South Hobart.
- 1.2 More specifically the proposal includes:
 - A new storage shed at the Resource Tip Shop in South Hobart.
 - The shed would be sited at the rear of the Tip Shop site, beside the public drop off area and would replace a previous shed that was recently destroyed by fire.
 - The proposed shed would have an area of 200m² and a maximum height of 5.42m to the peak of the gable roof.
- 1.3 The proposal relies on performance criteria to satisfy the following standards and codes:
 - 1.3.1 Potentially Contaminated Land Code
 - 1.3.2 Landslide Code
 - 1.3.3 Waterway and Coastal Protection Code
- 1.4 No representations were received during the statutory advertising period between 30 November 2021 and 14 December 2021.

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- 1.5 The proposal is recommended for approval subject to conditions.
- 1.6 The final decision is delegated to the Council because the application involves works on Council land.

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2. Site Detail

2.1 The subject site is part of the larger Mcrobies Gully Waste Management Centre and is associated with the Resource Tip Shop in the southern end of the site.

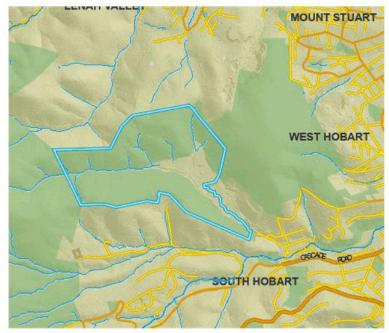


Figure 1: Location of the subject site at 30 Mcrobies Road, South Hobart (outlined in blue).

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Figure 2: the subject site at 30 Mcrobies Road, South Hobart (outlined in blue).

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Figure 3: the subject site at 30 Mcrobies Road, South Hobart (outlined in blue). The location of the proposed shed is indicated by the red arrow. This is an older image showing the site before the fire which burnt the shed which the proposed shed would replace.

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Figure 4: the subject site at 30 Mcrobies Road, South Hobart (outlined in blue). The location of the proposed shed is indicated by the red arrow. This is a recent image showing the site after the fire which burnt the shed which the proposed shed would replace.

2.2 It was considered that a site visit was not required as there were no discretions under the development standards for the zone.

3. Proposal

- 3.1 Planning approval is sought for Outbuilding (Storage Shed), at 30 Mcrobies Road, South Hobart.
- 3.2 More specifically the proposal is for:
 - A new storage shed at the Resource Tip Shop in South Hobart.
 - The shed would be sited at the rear of the Tip Shop site, beside the public drop off area and would replace a previous shed that was recently destroyed by fire.
 - The proposed shed would have an area of 200m² and a maximum height of 5.42m to the peak of the gable roof.

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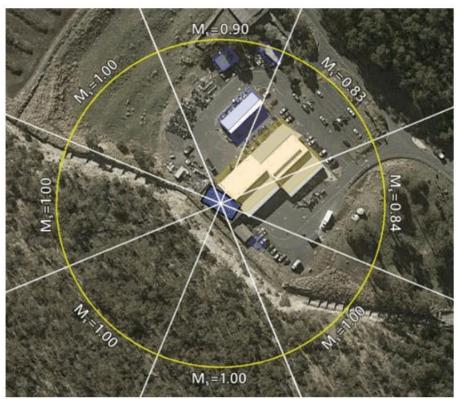


Figure 5: location of the proposed storage shed at 30 Mcrobies Road, South Hobart.

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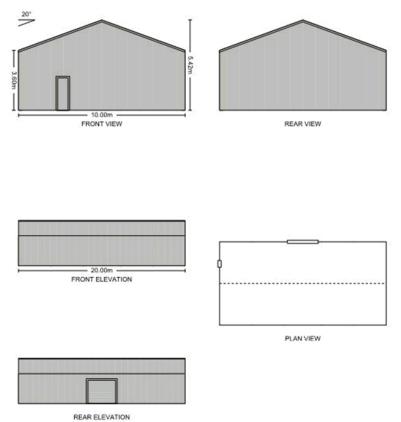


Figure 6: Elevation and floor plan of the proposed storage shed at 30 Mcrobies Road, South Hobart.

4. Background

4.1 This application is for a storage shed, which is to replace a shed that was destroyed by fire.

5. Concerns raised by representors

5.1 No representations were received during the statutory advertising period between 30 November 2021 and 14 December 2021.

6. Assessment

6.1 The *Hobart Interim Planning Scheme 2015* is a performance based planning

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scheme. To meet an applicable standard, a proposal must demonstrate compliance with either an acceptable solution or a performance criterion. Where a proposal complies with a standard by relying on one or more performance criteria, the Council may approve or refuse the proposal on that basis. The ability to approve or refuse the proposal relates only to the performance criteria relied on.

- 6.2 The site is located within the Utilities of the *Hobart Interim Planning Scheme 2015*.
- 6.3 The existing and proposed use is Recycling and Waste Disposal, which is a permitted use in the zone.
- 6.4 The proposal has been assessed against:
 - 6.4.1 Part D 28 Utilities Zone
 - 6.4.2 E2.0 Potentially Contaminated Land Code
 - 6.4.3 E3.0 Landslide Code
 - 6.4.4 E6.0 Parking and Access Code
 - 6.4.5 E7.0 Stormwater Management Code
 - 6.4.6 E9.0 Attenuation Code
 - 6.4.7 E11.0 Waterway and Coastal Protection Code
- 6.5 The proposal relies on the following performance criteria to comply with the applicable standards:
 - 6.5.1 Potentially Contaminated Land Code:

Excavation - E2.6.2 P1

6.5.2 Landslide Code:

Buildings and works in a landslide hazard area - E3.7.1 P1

6.5.3 Waterway and Coastal Protection Code:

Building and works in a waterway protection area - E11.7.1 P1

6.6 Each performance criterion is assessed below.

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- 6.7 Excavation in potentially contaminated land E2.6.2 P1
 - 6.7.1 There is no acceptable solution for clause E2.6.2 A1.
 - 6.7.2 The proposal includes excavation in potentially contaminated land.
 - 6.7.3 There is no acceptable solution; therefore, assessment against the performance criterion is relied on.
 - 6.7.4 The performance criterion at clause E2.6.2 P1provides as follows:

Excavation does not adversely impact on health and the environment, having regard to:

(a) an environmental site assessment that demonstrates there is no evidence the land is contaminated; or

(b) a plan to manage contamination and associated risk to human health and the environment that includes:

(i) an environmental site assessment;

(ii) any specific remediation and protection measures required to be implemented before excavation commences; and

(iii) a statement that the excavation does not adversely impact on human health or the environment.

- 6.7.5 The application was referred to Council's Senior Environmental Health Officer, who has determined that the proposal will not adversely impact on health or the environment. The Environmental Site Assessment submitted in support of the proposal concludes that the contamination levels are very low and will not pose risks to the environment or workers.
- 6.7.6 The proposal complies with the performance criterion.
- 6.8 Buildings and works in a landslide hazard area E3.7.1 P1
 - 6.8.1 There is no acceptable solution for clause E3.7.1 A1.
 - 6.8.2 The proposal includes buildings and works in a landslide hazard area.
 - 6.8.3 There is no acceptable solution; therefore assessment against the

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performance criterion is relied on.

6.8.4 The performance criterion at clause E3.7.1 P1 provides as follows:

Buildings and works must satisfy all of the following:

(a) no part of the buildings and works is in a High Landslide Hazard Area;

(b) the landslide risk associated with the buildings and works is either:

(i) acceptable risk; or

(ii) capable of feasible and effective treatment through hazard management measures, so as to be tolerable risk.

- 6.8.5 The application was referred to Council's Environmental Development Planner, who has determined that the proposal presents an acceptable risk. No part of the development is in a high landslide hazard area and Council's debris flow modelling does not identify any debris flow risk.
- 6.8.6 The proposal complies with the performance criterion.
- 6.9 Buildings and works in a waterway protection area E11.7.1 P1
 - 6.9.1 The acceptable solution for clause E11.7.1 A1 requires the development to be sited inside a building area on the title.
 - 6.9.2 The proposal includes development that is not inside a building area on the title as there is not such area identified.
 - 6.9.3 The proposal does not comply with the acceptable solution; therefore, assessment against the performance criterion is relied on.
 - 6.9.4 The performance criterion at clause E11.7.1 P1 provides as follows:

Building and works within a Waterway and Coastal Protection Area must satisfy all of the following:

(a) avoid or mitigate impact on natural values;

(b) mitigate and manage adverse erosion, sedimentation and runoff impacts on natural values;

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(c) avoid or mitigate impacts on riparian or littoral vegetation;

(d) maintain natural streambank and streambed condition, (where it exists);

(e) maintain in-stream natural habitat, such as fallen logs, bank overhangs, rocks and trailing vegetation;

(f) avoid significantly impeding natural flow and drainage;

(g) maintain fish passage (where applicable);

(h) avoid landfilling of wetlands;

(i) works are undertaken generally in accordance with 'Wetlands and Waterways Works Manual' (DPIWE, 2003) and "Tasmanian Coastal Works Manual" (DPIPWE, Page and Thorp, 2010), and the unnecessary use of machinery within watercourses or wetlands is avoided.

- 6.9.5 The application was referred to Council's Environmental Development Planner, who has determined that the proposed use and development will have no impact on riparian vegetation, streambank condition, natural water flows or in-stream habitat. Standard soil and water management measures will also ensure that any potential construction impacts on the waterway are mitigated.
- 6.9.6 The proposal complies with the performance criterion.

7. Discussion

- 7.1 Planning approval is sought for Outbuilding (Storage Shed) at 30 Mcrobies Road, South Hobart.
- 7.2 The application was advertised and no representations were received.
- 7.3 The proposal has been assessed against the relevant provisions of the planning scheme and is considered to perform well.
- 7.4 The proposal has been assessed by other Council officers, including the Council's Development Engineer, Stormwater Services Engineer, Environmental Development Planner, Senior Environmental Health Officer and Parks Planner. The officers have raised no objection to the proposal, subject to conditions.

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7.5 The proposal is recommended for approval.

8. Conclusion

8.1 The proposed Outbuilding (Storage Shed) at 30 Mcrobies Road, South Hobart satisfies the relevant provisions of the *Hobart Interim Planning Scheme 2015*, and as such is recommended for approval.

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9. Recommendations

That: Pursuant to the *Hobart Interim Planning Scheme 2015*, the Council approve the application for Outbuilding (Storage Shed) at 30 Mcrobies Road, South Hobart for the reasons outlined in the officer's report and a permit containing the following conditions be issued:

GEN

The use and/or development must be substantially in accordance with the documents and drawings that comprise PLN-21-492 - 30 MCROBIES ROAD SOUTH HOBART TAS 7004 - Final Planning Documents, except where modified below.

Reason for condition

To clarify the scope of the permit.

ENG sw1

All stormwater from the proposed development (including but not limited to: roofed areas, ag drains, retaining wall ag drains and impervious surfaces such as driveways and paved areas) must be drained to the Council's stormwater infrastructure prior to first occupation or commencement of use (whichever occurs first).

Any private or private shared stormwater system passing through third-party land must have sufficient receiving capacity.

Advice: Under section 23 of the Urban Drainage Act 2013 it is an offence for a property owner to direct stormwater onto a neighbouring property.

Reason for condition

To ensure that stormwater from the site will be discharged to a suitable Council approved outlet.

ENG 1

Any damage to council infrastructure resulting from the implementation of this permit, must, at the discretion of the Council:

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- 1. Be met by the owner by way of reimbursement (cost of repair and reinstatement to be paid by the owner to the Council); or
- 2. Be repaired and reinstated by the owner to the satisfaction of the Council.

A photographic record of the Council's infrastructure adjacent to the subject site must be provided to the Council prior to any commencement of works.

A photographic record of the Council's infrastructure (e.g. existing property service connection points, roads, buildings, stormwater, footpaths, driveway crossovers and nature strips, including if any, pre-existing damage) will be relied upon to establish the extent of damage caused to the Council's infrastructure during construction. In the event that the owner/developer fails to provide to the Council a photographic record of the Council's infrastructure, then any damage to the Council's infrastructure found on completion of works will be deemed to be the responsibility of the owner.

Reason for condition

To ensure that any of the Council's infrastructure and/or site-related service connections affected by the proposal will be altered and/or reinstated at the owner's full cost.

ENV 1

Sediment and erosion control measures sufficient to prevent sediment from leaving the site must be installed prior to any disturbance of the site, and maintained until all areas of disturbance have been stabilized or re-vegetated.

Advice: For further guidance in preparing a Soil and Water Management Plan – in accordance with Fact sheet 3 Derwent Estuary Program click here.

Reason for condition

To avoid the sedimentation of roads, drains, natural watercourses, Council land that could be caused by erosion and runoff from the development, and to comply with relevant State legislation.

ADVICE

The following advice is provided to you to assist in the implementation of the planning permit that has been issued subject to the conditions above. The advice is not exhaustive and you must inform yourself of any other legislation, by-laws, regulations,

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codes or standards that will apply to your development under which you may need to obtain an approval. Visit the Council's website for further information.

Prior to any commencement of work on the site or commencement of use the following additional permits/approval may be required from the Hobart City Council.

BUILDING PERMIT

You may need building approval in accordance with the *Building Act 2016*. Click here for more information.

This is a Discretionary Planning Permit issued in accordance with section 57 of the *Land Use Planning and Approvals Act 1993*.

PLUMBING PERMIT

You may need plumbing approval in accordance with the *Building Act 2016*, *Building Regulations 2016* and the National Construction Code. Click here for more information.

STORM WATER

Please note that in addition to a building and/or plumbing permit, development must be in accordance with the Hobart City Council's Infrastructure By law. Click here for more information.

FEES AND CHARGES

Click here for information on the Council's fees and charges.

DIAL BEFORE YOU DIG

Click here for dial before you dig information.

Page: 16 of 17

Nie

(Mark O'Brien)

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Keny

(Karen Abey) Manager Development Appraisal

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Date of Report: 14 January 2022

Attachment(s):

Attachment B - CPC Agenda Documents

Attachment C - Planning Referral Officer Report(s)

Page: 17 of 17

CERTIFICAT	Section 94 Section 106 Section 129 Section 155					
To:	TIFRENO BUILDERS - GI	en	Owner name	05		
	28 Mcrobies Rd		Address	Form 35		
	South Hobart TAS	7004	Suburb/postcode			
Designer detail	s:					
Name:	John L Towler		Category:	Structural Eng.		
Business name:			Phone No:	(07) 3808 8118		
Business address:	PO Box 783					
	Gympie QLD	4570	Fax No:			
Licence No: CC4011J Email engineering@she				om.au		
Details of the p	roposed work:					
Owner/Applicant	TIFRENO BUILDERS - Glen		Designer's proje reference No.	Designer's project 310725.C01 reference No.		
Address:	28 Mcrobies Rd	8 Mcrobies Rd				
	South Hobart TAS	7004				
Type of work:	Building wo	rk 🗵	Plumbing work	(X all applicable)		
Description of wol Building Class: 10a New Steel Framed			ad re- w. sto on ma	w building / alteration / dition / repair / removal / erection ater / sewerage / orrmwater / -site wastewater anagement system / ckflow prevention / other)		
Description of the	Design Work (Scope, limitat	ions or exclusio				
Certificate Type:			Responsible Prac			
	E Building design		Architect or Buildin			
	Structural design		Engineer or Civil E Fire Engineer	Jesigner		
	Fire Safety design		Civil Engineer or C	Civil Designer		
	Civil design Hydraulic design		Building Services			
	Fire service design		Building Services			
	Electrical design		Building Services	Designer		
	Mechanical design		Building Service D	esigner		
	Plumbing design		Plumber-Certifier; Designer or Engin			
	Other (specify)					
Deemed-to-Satisfy:		Performance S	olution: 🔲 (X th	e appropriate box)		

Deemed-to-Satisfy:

Director of Building Control - date approved: 2 August 2017

Building Act 2016 - Approved Form No 35

Design documents	provided:	
he following documents	are provided with this Certificate –	
ocument description: Drawing Numbers:	Prepared by:	Date:
0	Plepaled by.	Date.
Gable Shed		12/02/2018
SH2009-07	ShedTech ShedTech	13/03/2018 20/09/2012
SH2009-08 STSD-01.2	ShedTech	10/02/2015
STSD-01.2 STSD-02	ShedTech	10/11/2017
STSD200-02	ShedTech	10/11/2011
STSD150-01	ShedTech	
Additional Documents Statement, Building Elev Locations, Fly Bracing L	(Job Reference # 310725): Wind Load Cervations, Column and Mullion Locations, Brac	tificate (2 Pages), Compliance ing Locations, Purlin and Girts
Schedules:	Prepared by:	Date:
Specifications:	Prepared by:	Date:
Computations:	Prepared by:	Date:
Performance solution pr	roposals: Prepared by:	Date:
Test reports:	Prepared by:	Date:
Stanuarus, coues (er guruennee reneu en maeergr	
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AS 1170.0 General F AS 1170.1 Permaner	Principals (2002) nt & Other Actions (2002)	
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Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

Licence No:			
Assessment	of Certifiable Works	s: (TasWater)	
Note: single resid		utbuildings on a lot wit	th an existing sewer connection are
f you cannot che	ck ALL of these boxes	, LEAVE THIS SECTION	N BLANK.
ΓasWater must ti	hen be contacted to de	termine if the proposed	d works are Certifiable Works.
		ot Certifiable Works, in that all of the following	n accordance with the Guidelines fo g are satisfied:
The works w	ill not increase the dema	and for water supplied by	/ TasWater
	rill not increase or decrea d into, TasWater's sewe		ge or toxins that is to be removed by,
	rill not require a new con Water's infrastructure	nection, or a modificatior	n to an existing connection, to be
The works w	rill not damage or interfe	e with TasWater's works	S
The works w	ill not adversely affect Ta	asWater's operations	
The work are	e not within 2m of TasWa	ater's infrastructure and a	are outside any TasWater easement
I have check	ed the LISTMap to confi	rm the location of TasWa	ater infrastructure
If the proper applied for to		ater's water system, a wa	ater meter is in place, or has been

Certification:

I being responsible for the proposed work, am satisfied that the works described above are not Certifiable Works, as defined within the *Water and Sewerage Industry Act 2008,* that I have answered the above questions with all due diligence and have read and understood the Guidelines for TasWater CCW Assessments.

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: <u>www.taswater.com.au</u>

	Name: (print)	Signed	Date
Designer:			25/06/2021

Building Act 2016 - Approved Form No 35

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022



Steeline Hobart ABN: 75 009 543 506 1 Whitestone Drive Austins Ferry TAS 7011 Address: Email: tassiesheds@steeline.com.au Web: www.steeline.com.au

Phone: (03) 6249 4988 (03) 6249 3838 Wind No: 310725

Date: 24/06/2021

Portal Garage/Shed Specifications

Site Address: Dimensions: NCC Compliance: 28 Mcrobies Rd, South Hobart, TAS 7004, Australia 10.0 m Wide × 20.0 m Long with a 4.5 m average roof height (-58.6° Orientation) This shed has been designed with restricted internal pressures, Cpi = +0.2 & -0.3. Roller door supply must comply with AS4505

Fax:

Site Location

The following map, obtained from Google Maps Imagery (©2021 Google), shows the site location:



Wind Load (AS/NZS 1170.2:2011)

The following table summarizes the wind parameters for this site:

Parameter	N	NE	E	SE	S	SW	w	NW
Importance Level	2 (1:500 Wind)							
Wind Region		A3 (V, = 45 m/s)						
Wind Directional Multiplier M _d	0.85	0.80	0.80	0.80	0.80	0.85	0.90	1.00
Terrain Category	2.29	2.06	2.50	2.26	2.35	2.00	2.00	2.03
Terrain/height Multiplier M _{z,cat}	0.89	0.91	0.87	0.89	0.88	0.91	0.91	0.91
Shielding Multiplier Ms	0.90	0.83	0.84	1.00	1.00	1.00	1.00	1.00
Topographic Multiplier M,	1.00	1.16	1.03	1.13	1.13	1.15	1.15	1.00
Site Wind Speed V _{sit,6}	31.34	31.50	30.00	37.12	37.12	40.16	42.52	40.95
Ultimate Design Wind Speed V _{des}		42.52 m/s (1.08 kPa)						
Service Design Wind Speed V	1.1.1.1	33.03 m/s (0.65 kPa)						

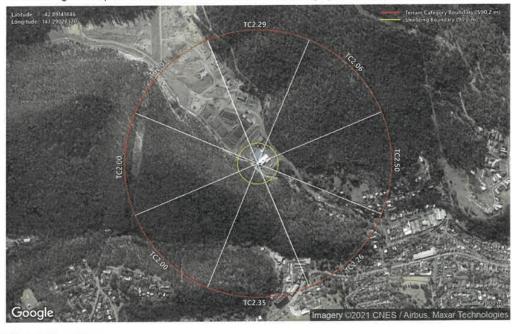
hood

5.28 / 5.29

Page 1 of 2

Terrain Category Map

The following site map shows the site in relation to the terrain category boundary (©2021 Google):



Shielding Map

The following site map shows the site in relation to the shielding boundary (©2021 Google):



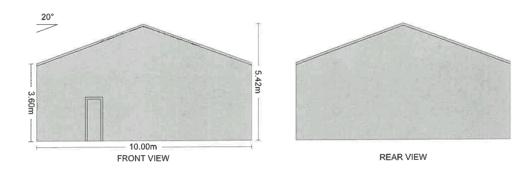
Page 2 of 2

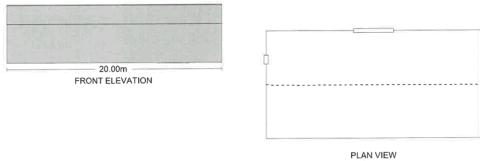
order Number: 310725	
	ents listed below are structurally adequate for their purpose. This document takes preceden
ver selections from tables in the	Date: 25 June 2021
igned:	Date: 25 June 2021
Customer Details:	
Customer Name:	TIFRENO BUILDERS - Glen
Site Address:	28 Mcrobies Rd South Hobart TAS 7004
Building Specification	ins:
Length:	20.00m
Width: Height:	10.00m 3.60m
-	
Building Style: Roof Style:	Portal Frame Shed Gable / Skillion
Roof Pitch:	10°
Roof Cladding:	Corrugated 0.42 BMT
Roof Screws:	14 - 10 x 50 SDM Hex Seal
Wall Cladding: Wall Screws:	Steelclad 0.42 BMT 10 – 16 x 16 Hex
Roller-Doors:	1 x Series "AA" Windlocked Roller-Door (3000 x 3700)
P/A Doors:	1 x Personal Access Door (2040 x 820)
Windows:	N/A
Wall Insulation: Full Coverage:	Foil Sisalation (60m) Type 456 Safety Mesh (2mm)
End Portal Frame:	C20024
Internal Portal Frame:	C20024
Knee Braces:	N/A
Apex Braces	N/A
Roof Purlin Type: Max Purlin Spacing:	TopHat 120mm 1.20 BMT 866mm
Wall Girt Type: Max Girt Spacing:	TopHat 120mm 1.20 BMT 1050mm
Bay Count:	5
Bay Sizes:	3.88m, 3.88m, 4.50m, 3.88m, 3.88m
NCC Compliance:	This shed has been designed with restricted internal pressures coefficient, Cpi = +0.2 & 0.3. Roller door supply must comply with AS4505.

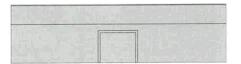
Item No. 7.1.5

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

	Steeline Hobart					Order		
Shed Tech	ABN: Address: Email: Web:	75 009 543 506 1 Whitestone Drive Austins Ferry TAS 7011 tassiesheds@steeline.com.au www.steeline.com.au	Phone: Fax:	(03) 6249 4988 (03) 6249 3838	No: Date:	310725 24/06/2021		



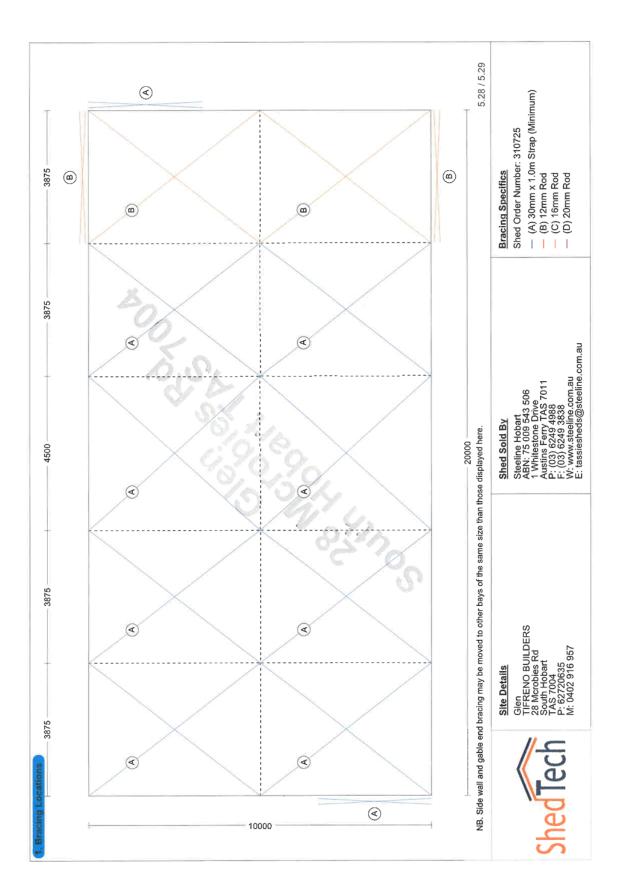


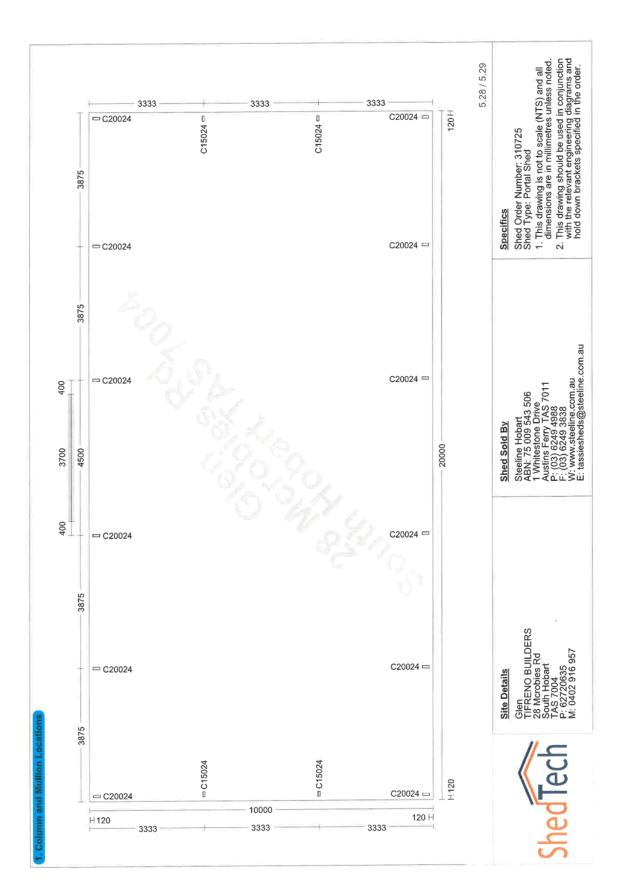


REAR ELEVATION

Produced by ShedTech

Page 2 of 4

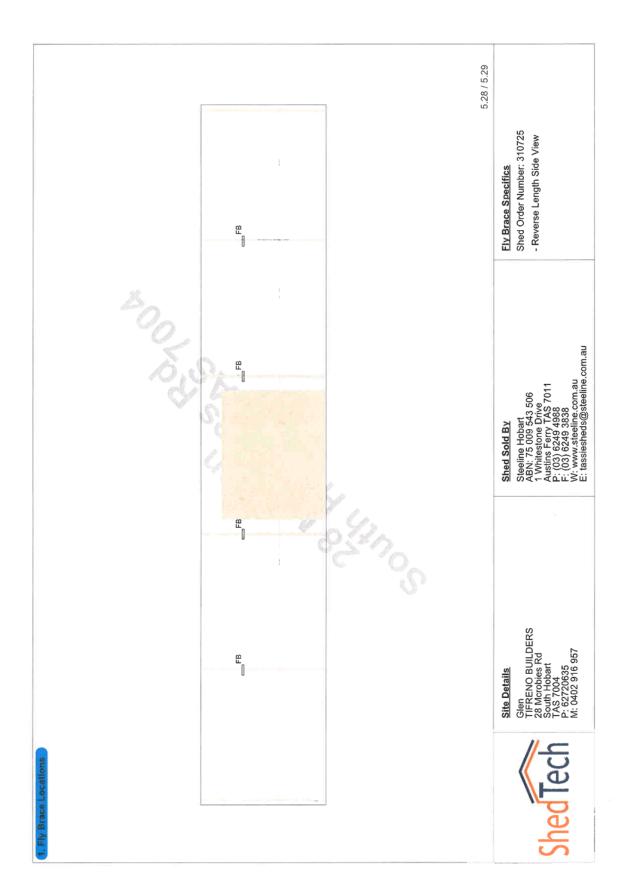


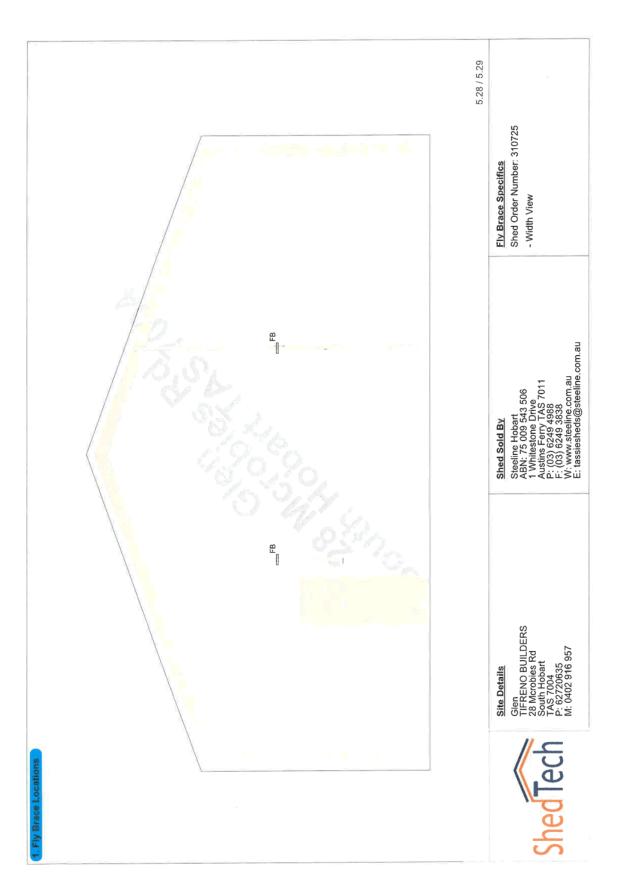


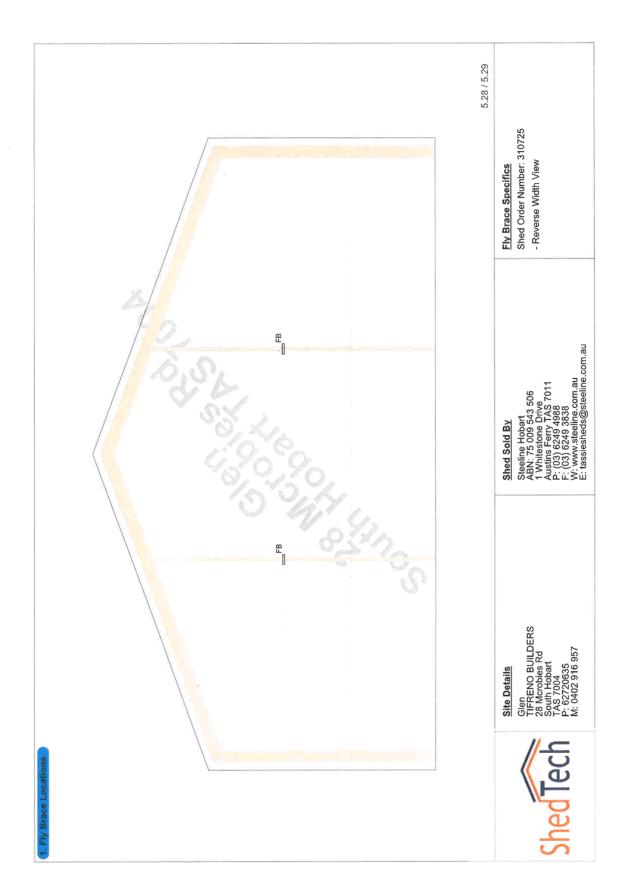
Item No. 7.1.5

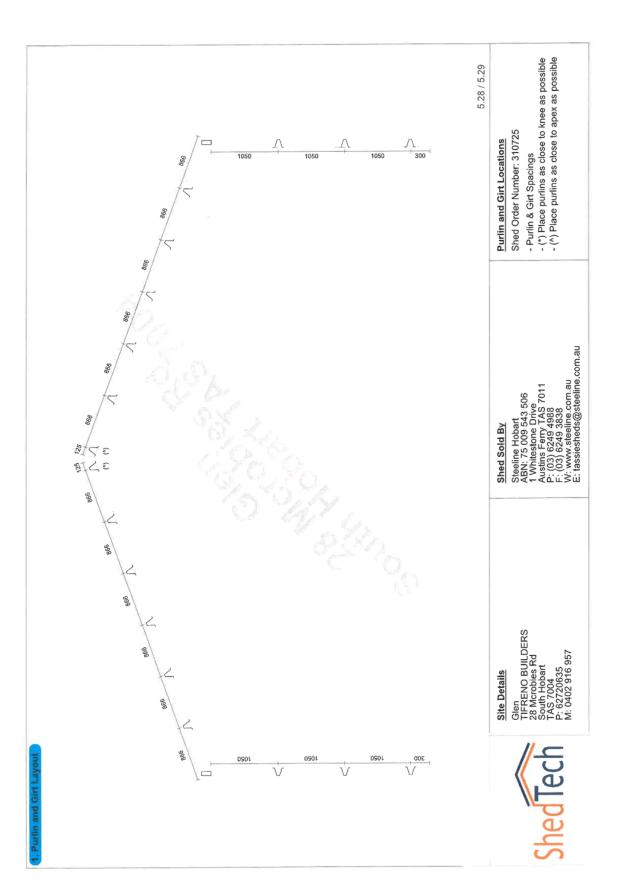


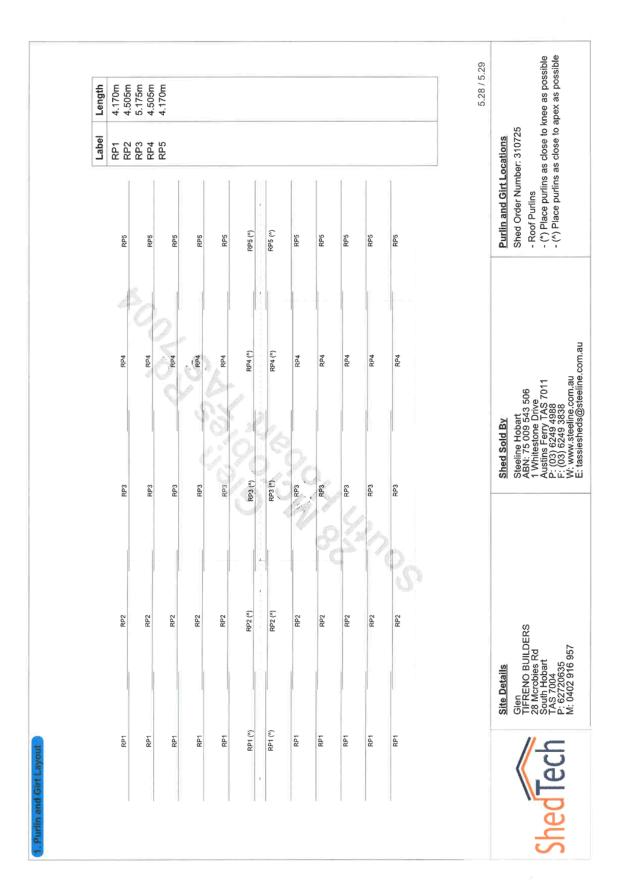


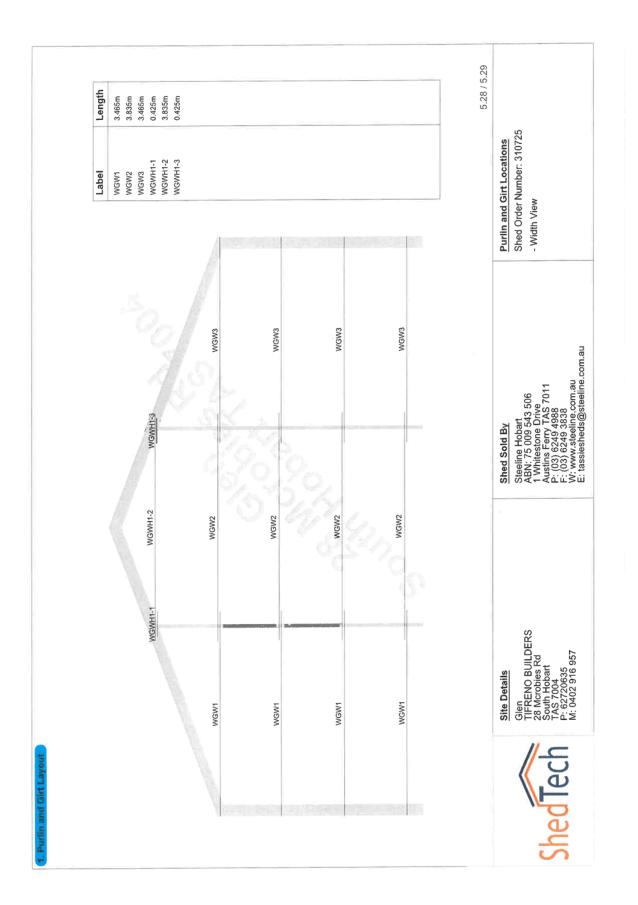


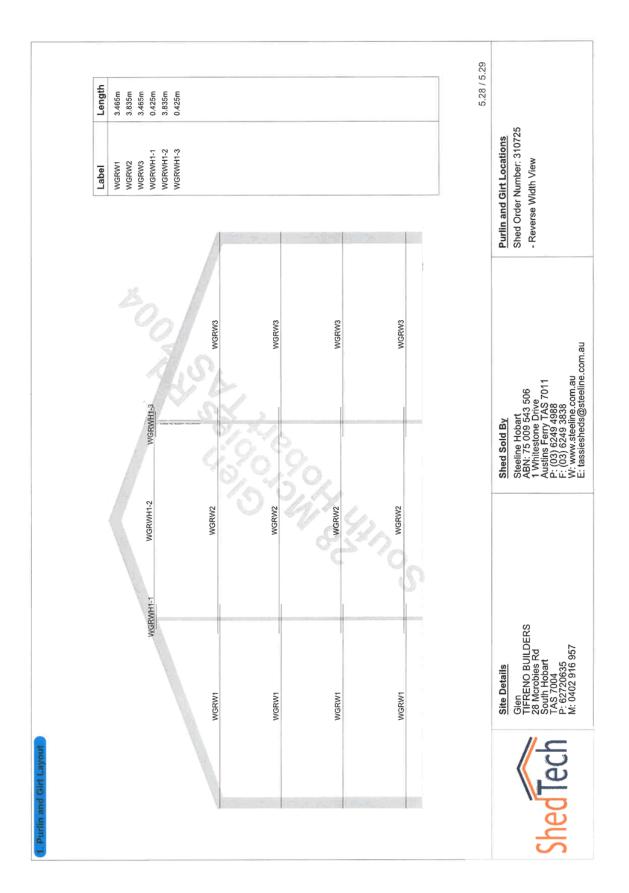


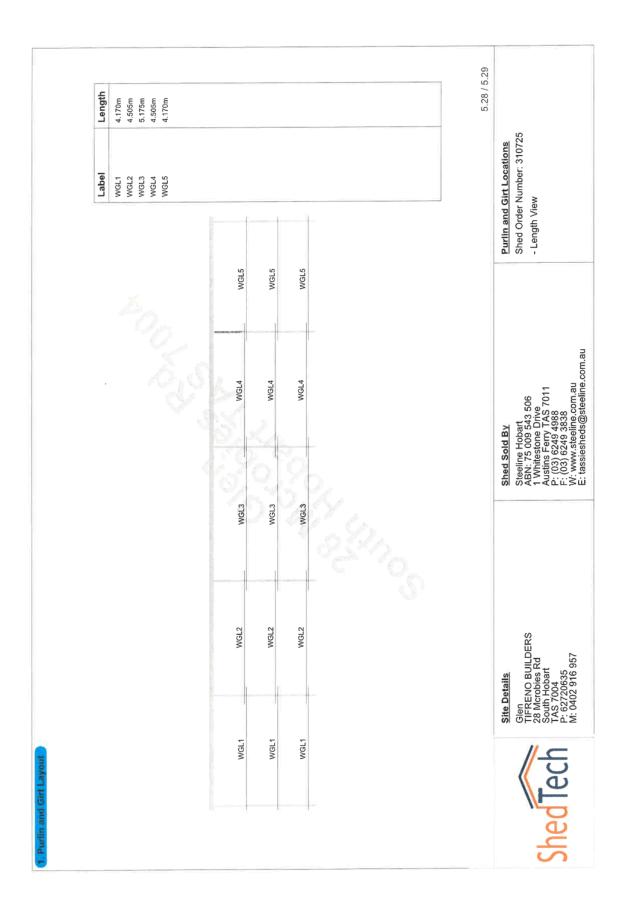


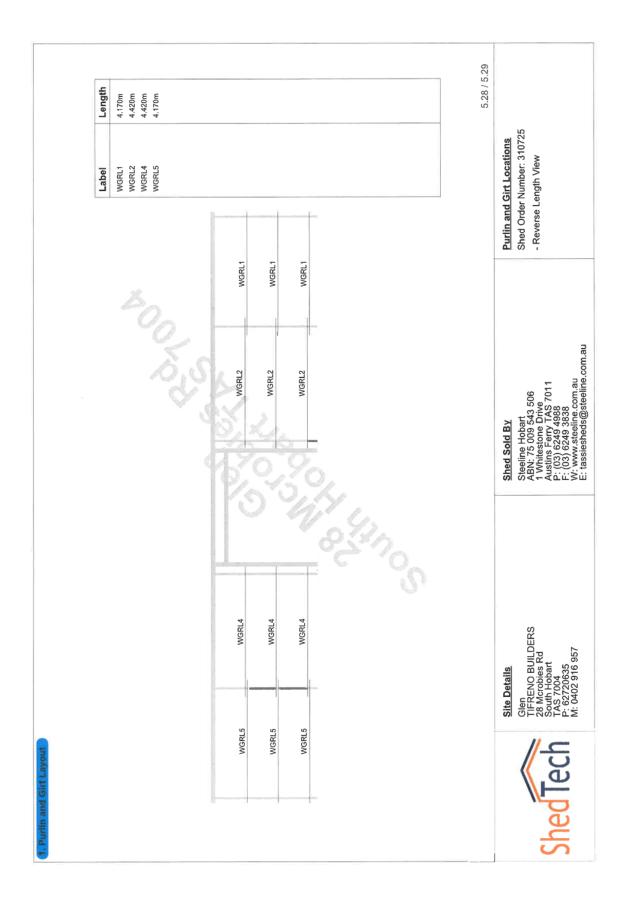






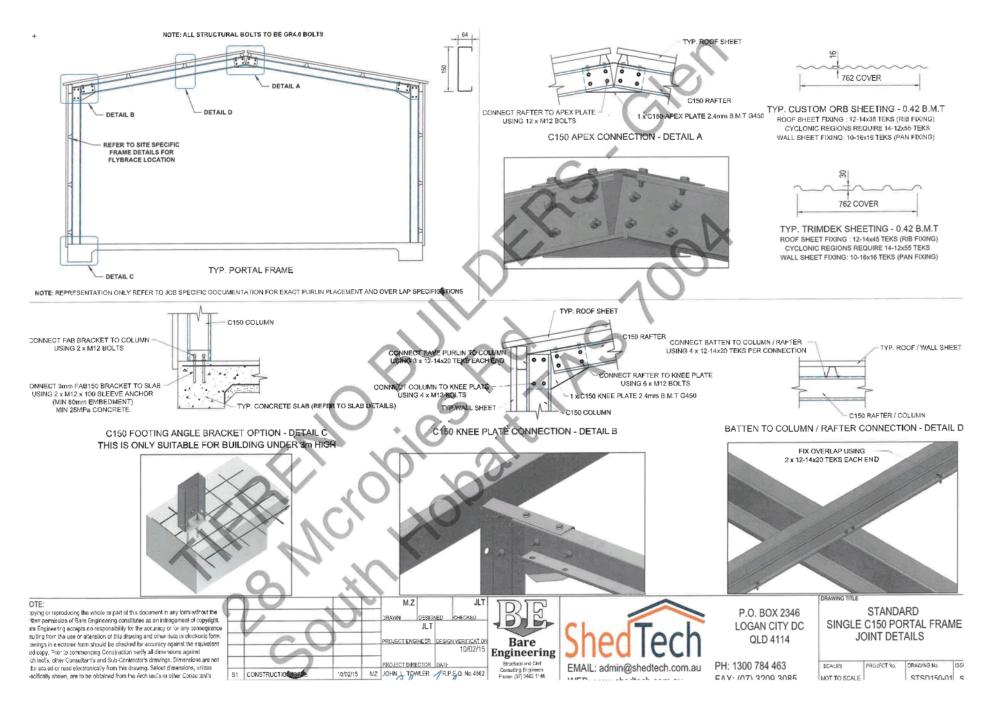






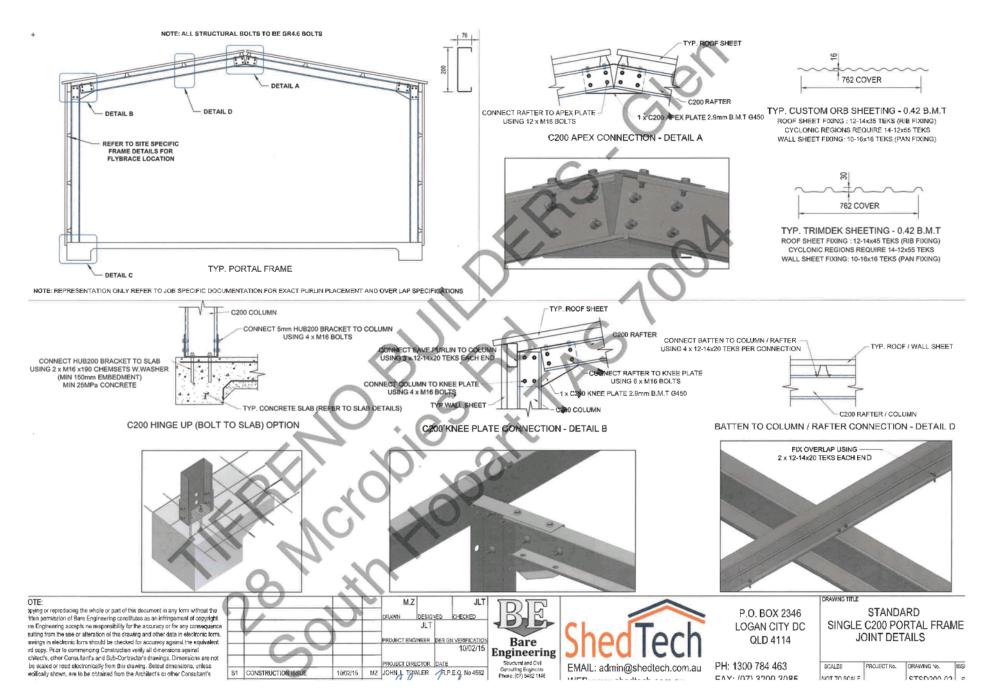
Item No. 7.1.5

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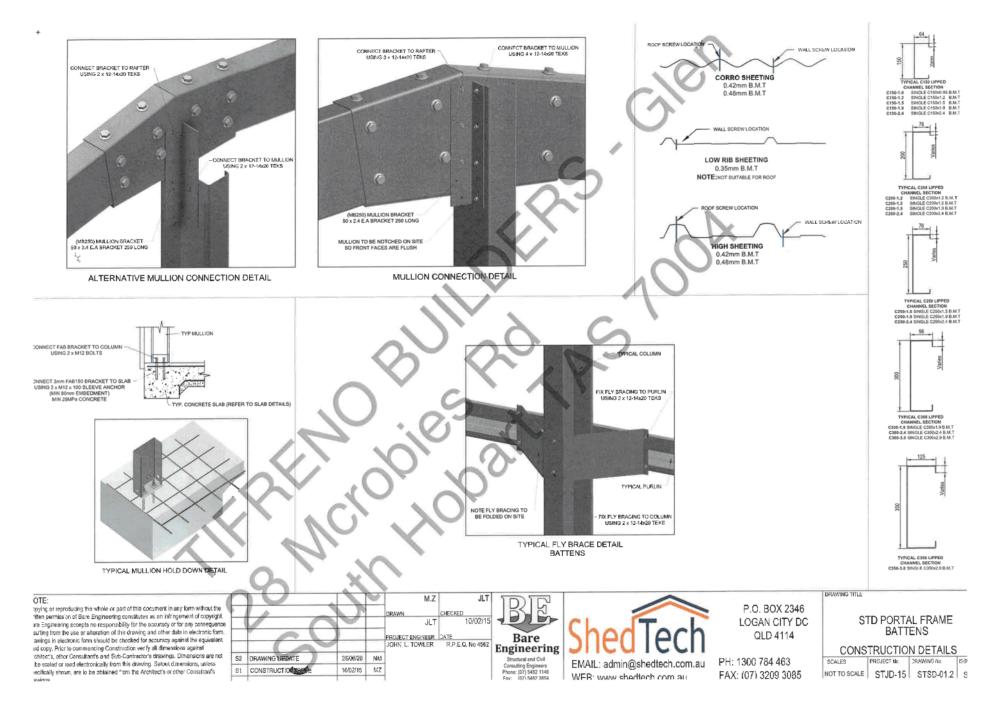


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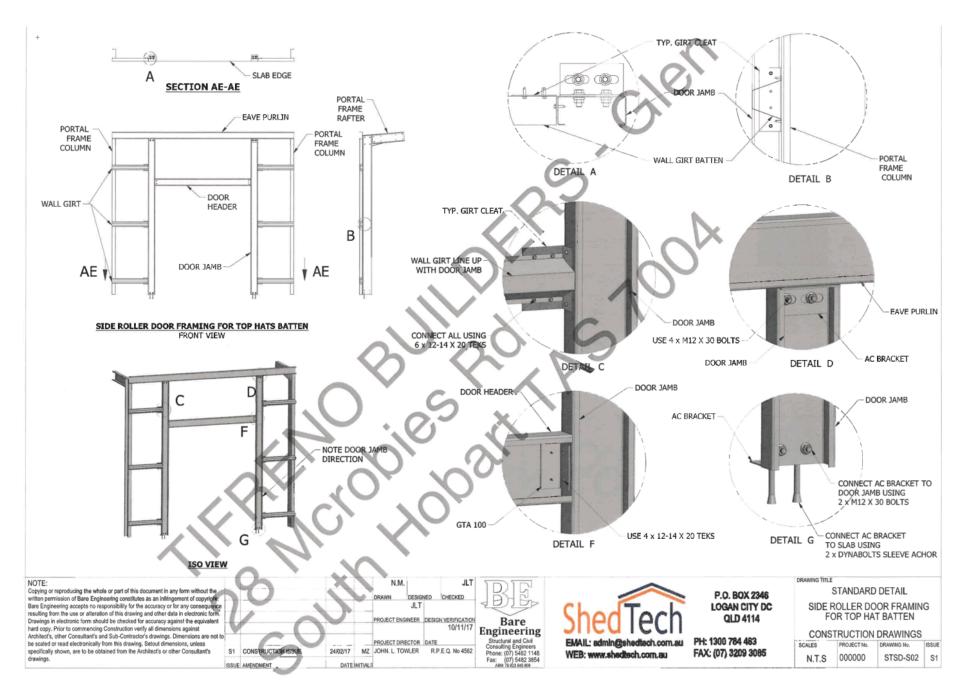
Page 405 ATTACHMENT B



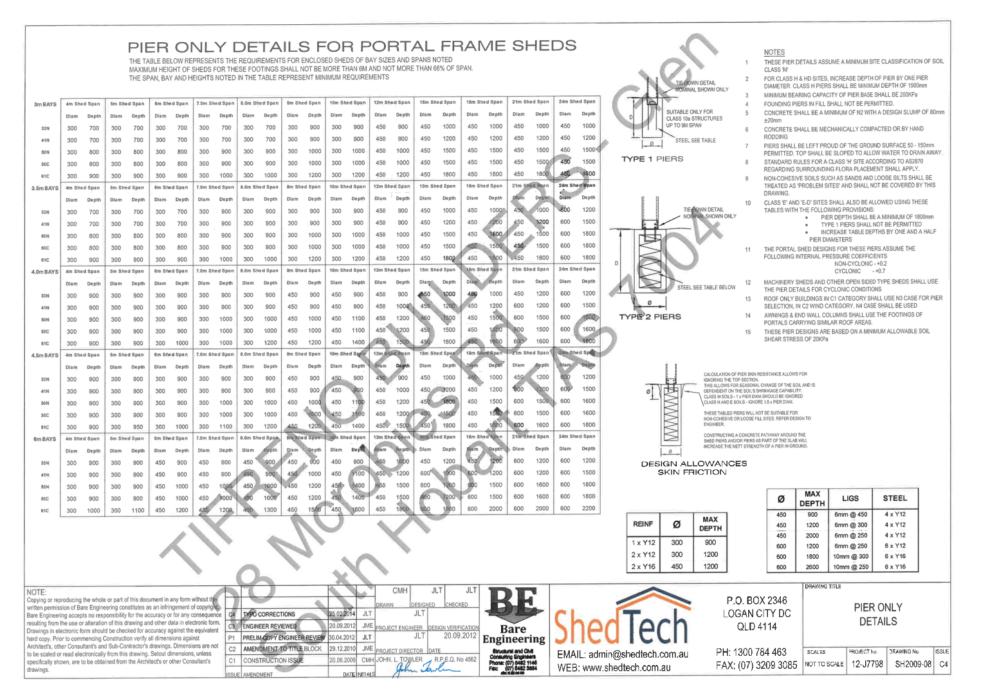
Page 406 ATTACHMENT B



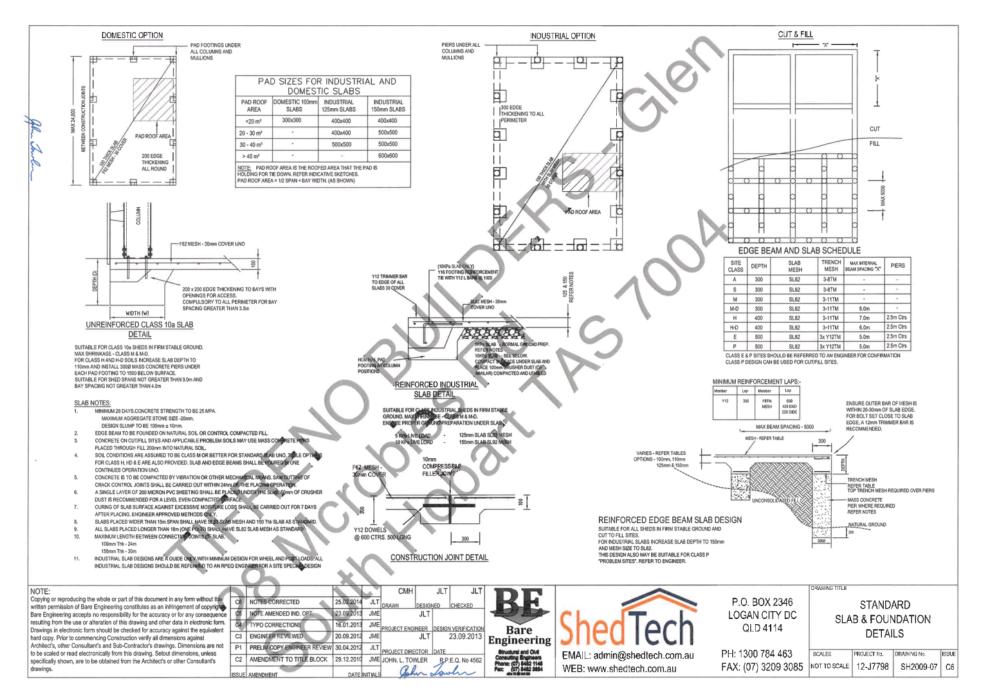
Page 407 ATTACHMENT B



Page 408 ATTACHMENT B



Page 409 ATTACHMENT B





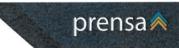
property > environment > safety >

Soil Contamination Assessment

McRobies Gully Waste Management Centre, 30 McRobies Road, South Hobart, Tasmania

> Sedgwick Claims Management October 2021

> > Client No: \$0172 Job No: 98633M



Executive Summary

Prensa Pty Ltd (Prensa) was engaged by Sedgwick Claims Management (Sedgwick) to undertake a Soil Contamination Assessment (SCA) within a nominated area at McRobies Gully Waste Management Centre, 30 McRobies Road, South Hobart, Tasmania (the Site). The nominated area of the Site was denoted the 'Investigation Area' and has been illustrated in **Figures 1 and 2** attached.

Prensa understood that Sedgwick as the insurance provider has engaged a building contractor to undertake redevelopment works within the Investigation Area comprising the installation of a replacement storage shed. In order to facilitate the construction works within the Investigation Area, a planning permit (ref: *30 McRobies Road, South Hobart, Outbuilding (Storage Shed) Application No PLN-21-492*, dated 16 August 2021), was submitted to the Hobart City Council (Council). However, prior to the approval of the planning permit, Council required that an Environmental Site Assessment which complied with the relevant provisions of the Potentially Contaminated Land Code- *E2.6.2* of the Hobart Interim Planning Scheme 2015, specifically, Condition PCL1 be met.

In light of the planning permit conditions, Sedgwick engaged Prensa to undertake a SCA to provide an indication of the contamination status within the Investigation Area with the following objectives:

- Provide an indication of the contamination status within the Investigation Area that may represent
 a potential ecological and/or health risk to construction workers during the construction phase of
 the works at the Site and for future users of the Site in light of the proposed storage shed
 development;
- Classify the soil within the Investigation Area in accordance with Information Bulletin No 105 to facilitate its disposal off-site (if required); and
- Provide recommendations for further assessment (where required).

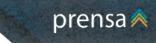
The SCA included a desktop appraisal and the establishment of five (5) generally gridded soil boreholes within the Investigation Area.

The desktop review indicated that the Investigation Area formed part of a larger property which operated as the McRobies Gully Waste Management Centre, whilst the further surrounding area comprised National Park. Review of LISTmap documentation indicated that the Investigation Area and larger Site was not listed on the EPA Underground Petroleum Storage Systems, however, was listed as a Level 2 Activity on the EPA Regulated Premises Register. Given the Site has been subject to assessment, approval and undergoes ongoing monitoring and management, it was considered unlikely that contamination associated with the landfill operations would impact upon the Investigation Area. As such, it was considered unlikely that off-site sources of contamination would impact upon the Investigation Area.

The soil assessment identified generally a clayey gravel fill soil profile with minor anthropogenic material (bitumen, brick, glass and metal fragments) to an average depth of 0.6 m bgl. Odorous and/or stained soil were not observed within the fill or natural soil profiles during the soil sampling works nor were elevated photo-ionisation detector (PID) readings. This correlated with the soil analytical results which reported contaminant concentrations less than the adopted ecological and human health investigation/screening levels for a commercial/industrial land use. It was noted that elevated concentrations of benzo(a)pyrene (BaP) were reported in the fill profile soil which exceeded the ecological screening level. However, it was considered unlikely that the elevated BaP concentrations reported in discrete locations within the Investigation Area would pose a significant ecological risk to

S0172:RCS:98633M Hobart Tip Storage Shed SCA

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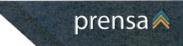


the highly modified ecosystems present within the Investigation Area, which have likely acclimatised to the soil conditions. In addition, the elevated BaP concentrations were vertically delineated with the underlying natural soil samples reporting concentrations of BaP less than the adopted ecological screening level.

As such, based on the findings of the assessment, it was considered that the potential for significant soil contamination to exist within the Investigation Area which may represent a potential ecological and/or health risk to construction workers during the construction phase of the works at the Site and for future users of the Site was low. Furthermore, based on the findings of this SCA, it was considered that further assessment and/or remedial works are not warranted.

In light of these findings, Prensa considered that the compliance requirements, specifically Condition PCL1 of the Potentially Contaminated Land Code- *E2.6.2* of the Hobart Interim Planning Scheme 2015 have been met.

In the event disposal of soil is required as an alternative to re-use, the fill profile soil within the Investigation Area is categorised as **Low Level Contaminated Soil - Level 2**, as specified in EPA Tasmania Information Bulletin No 105, 2018.



Statement of Limitations

This document has been prepared in response to specific instructions from Sedgwick Claims Management to whom the report has been addressed. The work has been undertaken with the usual care and thoroughness of the consulting profession. The work is based on generally accepted standards, practices of the time the work was undertaken. No other warranty, expressed or implied, is made as to the professional advice included in this report.

The report has been prepared for the use by Sedgwick Claims Management and the use of this report by other parties may lead to misinterpretation of the issues contained in this report. To avoid misuse of this report, Prensa advises that the report should only be relied upon by Sedgwick Claims Management and those parties expressly referred to in the introduction of the report. The report should not be separated or reproduced in part and Prensa should be retained to assist other professionals who may be affected by the issues addressed in this report to ensure the report is not misused in any way.

Prensa is not a professional quantity surveyor (QS) organisation. Any areas, volumes, tonnages or any other quantities noted in this report are indicative estimates only. The services of a professional QS organisation should be engaged if quantities are to be relied upon.

Sampling Risks

Prensa acknowledges that any scientifically designed sampling program cannot guarantee all sub-surface contamination will be detected. Sampling programs are designed based on known or suspected site conditions and the extent and nature of the sampling and analytical programs will be designed to achieve a level of confidence in the detection of known or suspected subsurface contamination. The sampling and analytical programs adopted will be those that maximises the probability of identifying contaminants. Sedgwick Claims Management must therefore accept a level of risk associated with the possible failure to detect certain sub-surface contamination where the sampling and analytical program misses such contamination. Prensa will detail the nature and extent of the sampling and analytical program used in the investigation in the investigation report provided.

Environmental site assessments identify actual subsurface conditions only at those points where samples are taken and when they are taken. Soil contamination can be expected to be non-homogeneous across the stratified soils where present on site, and the concentrations of contaminants may vary significantly within areas where contamination has occurred. In addition, the migration of contaminants through groundwater and soils may follow preferential pathways, such as areas of higher permeability, which may not be intersected by sampling events. Subsurface conditions including contaminant concentrations can also change over time. For this reason, the results should be regarded as representative only.

Sedgwick Claims Management recognises that sampling of subsurface conditions may result in some cross contamination. All care will be taken and the industry standards used to minimise the risk of such cross contamination occurring, however, Sedgwick Claims Management recognises this risk and waives any claims against Prensa and agrees to defend, indemnify and hold Prensa harmless from any claims or liability for injury or loss which may arise as a result of alleged cross contamination caused by sampling.

Reliance on Information Provided by Others

Prensa notes that where information has been provided by other parties in order for the works to be undertaken, Prensa cannot guarantee the accuracy or completeness of this information. Sedgwick Claims Management therefore waives any claim against the company and agrees to indemnify Prensa for any loss, claim or liability arising from inaccuracies or omissions in information provided to Prensa by third parties. No indications were found during our investigations that information contained in this report, as provided to Prensa, is false.

Recommendations for Further Study

The industry recognised methods used in undertaking the works may dictate a staged approach to specific investigations. The findings therefore of this report may represent preliminary findings in accordance with these industry recognised methodologies. In accordance with these methodologies, recommendations contained in this report may include a need for further investigation or analytical analysis. The decision to accept these recommendations and incur additional costs in doing so will be at the sole discretion of Sedgwick Claims Management and Prensa recognises that Sedgwick Claims Management will consider their specific needs and the business risks involved. Prensa does not accept any liability for losses incurred as a result of Sedgwick Claims Management not accepting the recommendations made within this report.



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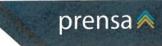
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1 Introduction

Prensa Pty Ltd (Prensa) was engaged by Sedgwick Claims Management (Sedgwick) to undertake a Soil Contamination Assessment (SCA) within a nominated area at McRobies Gully Waste Management Centre, 30 McRobies Road, South Hobart, Tasmania (the Site). The nominated area of the Site was denoted the 'Investigation Area' and has been illustrated in **Figure 1** attached.

2 Background

Based on the information provided, it was understood that a storage building at the Site sustained fire damage in November 2020 and has subsequently undergone demolition. Prensa understood that Sedgwick as the insurance provider engaged a building contractor to undertake redevelopment works within the southern portion of the Site (hereby referred to as the Investigation Area). The redevelopment works comprised the installation of a replacement storage shed across an approximate footprint of 200 m². In order to facilitate the construction works within the Investigation Area, a planning permit (ref: *30 Mcrobies Road, South Hobart, Outbuilding (Storage Shed) Application No PLN-21-492*, dated 16 August 2021), was submitted to the Hobart City Council (Council). However, prior to the approval of the planning permit, Council required that an Environmental Site Assessment which complied with the relevant provisions of the Potentially Contaminated Land Code- *E2.6.2* of the Hobart Interim Planning Scheme 2015 be met. Specifically, Condition PCL1, which stipulated that:

A contamination Environmental Site Assessment report prepared by a suitably qualified and experienced person in accordance with the procedures and practices detailed in the National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPM) as amended 2013 must be provided. The report must conclude:

- Whether any site contamination presents a risk to workers involved in redevelopment of the site, or future users of the site, as a result of proposed excavation of the site;
- Whether any site contamination presents an environmental risk from excavation conducted during redevelopment of the site; and
- Whether any specific remediation and/or protection measures are required to ensure proposed excavation does not adversely impact human health or the environment before excavation commences.

As such, in light of the planning permit conditions, Sedgwick engaged Prensa to undertake a SCA within the Investigation Area to provide an indication of the contamination status within the Investigation Area.

3 Objectives

The objectives of the SCA were to:

- Provide an indication of the contamination status within the Investigation Area that may represent
 a potential ecological and/or health risk to construction workers during the construction phase of
 the works at the Site and for future users of the Site in light of the proposed storage shed
 development;
- Classify the soil within the Investigation Area in accordance with Information Bulletin No 105 to facilitate its disposal off-site (if required); and
- Provide recommendations for further assessment (where required).

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4 Scope of Works

4.1 Key Undertakings

To complete the SCA, Prensa undertook the following:

- Desktop assessment, including review of the following information sources:
 - Planning property report which details the legal description of the Site;
 - Publicly available topographical, geological and hydrogeological maps;
 - EPA Underground Petroleum System;
 - o EPA Regulated Premises; and
 - Australian Soil Resource Information System (ASRIS) for acid sulphate soil maps.
- Site inspection;
- Intrusive soil assessment, including:
 - Supervision of establishment of five (5) generally gridded boreholes to a maximum depth of 1.0 m below ground level (bgl) within the Investigation Area using hand sampling equipment;
 - Collection of soil samples throughout the soil profile (including quality control samples) at each borehole location to a maximum depth of 1.0 m bgl; and
 - Reinstatement of borehole locations using soil cuttings.
- Analysis of samples at a National Association of Testing Authorities (NATA), Australia accredited laboratory (including QA/QC checks);
- Comparison of results against the adopted ecological and human health investigation screening levels; and
- Preparation of this SCA.

4.2 Assessment Boundaries

The SCA was limited to an assessment within the Investigation Area, the location of which has been illustrated in yellow on **Figure 1** in the '**Figures**' section of this report.

4.3 Regulatory Framework

The SCA was conducted with reference to and in general accordance with the methodologies outlined in the following:

- National Environment Protection Council (Tasmania) Act 1995 (NEPC 1995);
- Land Use Planning and Approvals Act 1993;
- State Policies and Projects Act 1993;
- National Environment Protection (Assessment of Site Contamination) Measure, 1999 (April 2013) (NEPM 2013);
- Australian Standard 4482.1, Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile Compounds, 2005;
- Australian Standard 4482.2, Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances, 1999;
- CRC Care, Technical Report No. 10, Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater, 2011;
- CRC Care, Technical Report No. 23, Petroleum Hydrocarbon Vapour Intrusion Assessment Australian Guidance, 2013;

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- Environmental Management and Pollution Control Act 1994 (EMPCA);
- State Policy on Water Quality Management, 1997;
- EPA Tasmania, Interim Default Guideline Values (DGVs) for Aquatic Ecosystems of Groundwater of Tasmania, EPA Tasmania, Hobart, Tasmania, June 2020; and
- Environmental Management and Pollution Control (Waste Management) Regulations 2020.

5 Desktop Review

5.1 Site Location and Description

The Investigation Area, which was located in the southern portion of the Site, comprised a rectangular area with an exposed soil surface. The Site containing the Investigation Area was located approximately 3 km southwest of the Hobart Central Business District. The location of the Site and Investigation Area has been illustrated in **Figure 1** provided in the '**Figures**' section of this report.

A description of the Site has been provided in Table 1 below.

	Table 1: General Site Description
Site Address	McRobies Gully Waste Management Centre, 30 McRobies Road, South Hobart, Tasmania
Total Area of Site	Site – approximately 77,000 m ² (7.7 hectares) Investigation Area – approximately 200 m ² (0.02 hectares)
Construction Year	McRobies Gully Waste Management Centre as a landfill began operating in 1975
Property ID	3273346
Title Owner	Hobart City Council
Local Council	Glenorchy City Council
Planning Zone	Environmental Management and Utilities under the Hobart Interim Planning Scheme of 2015.
Current Site Use	The Investigation Area forms part of a larger property which operates as the McRobies Gully Waste Management Centre (The Tip)
Proposed Works	Installation of a storage shed

Planning Property Reports sourced from the Department of Transport, Planning and Local Infrastructure (DTPLI) for the Site are provided in **Appendix A**.

5.2 Environmental Setting & Limited Desktop Review

Prensa undertook the following review to assist with establishing the environmental setting of the Site which includes the Investigation Area. A summary of the information reviewed has been provided in **Table 2** on the following page.

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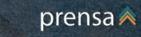


	Table 2: Environmental Setting & Limited Desktop Review					
Item	Description					
Surroundings Uses	 <u>North:</u> The Investigation Area was bound to the north by domestic waste sorting bays associated with the Resource Work Cooperative (not-for-profit, self-funding co-op) waste area of the McRobies Gully Waste Management Centre. A vacant grassed area was observed to the north of the waste sorting bays (approximately 50 m north of the Investigation Area) and was observed to extend approximately 130 m north of the Investigation Area, at its nearest point. The area to the north and north east of the vacant grassed areas comprised the landfilling areas of the McRobies Gully Waste Management Centre. The landfilling areas were noted to extend approximately 400 m to the immediate north and approximately 980 m north west of the Investigation Area. A section of McRobies Road was observed approximately 125 m north east of the Investigation Area (at its closest point). North of McRobies Road, a portion of the Wellington Park National Forest was observed and extended approximately 2 km until residential properties were observed. The Wellington Park National Forest was also observed 1 km to the north west of the Investigation Area. 					
	 <u>East:</u> The Investigation Area was bound to the east by areas utilised for the Resource Work Cooperative waste area of the McRobies Gully Waste Management Centre. This areas was observed to comprise access roadways with associated carparks, waste sorting bays and warehouse structures and extended towards a section of McRobies Road, approximately 110 m east of the Investigation Area, at its closest point. East of McRobies Road, a portion of the Wellington Park National Forest was observed and extended approximately 1 km east of the Investigation Area until residential properties were observed. 					
	• <u>South:</u> The Investigation Area was bound to the south to south east by a storage warehouse and access roadways associated with the Resource Work Cooperative waste area of the McRobies Gully Waste Management Centre. A drainage waterway was observed to the immediate south to south west of the Investigation Area. The Wellington Park National Forest was observed approximately 20 m south of the Investigation Area (at its closest point) and extended approximately 430 m south of the Investigation Area until the Hobart Rivulet and Cascade brewery was observed.					
	 <u>West:</u> A segment of the drainage waterway was observed to the immediate west of the Investigation Area. West of the drainage waterway, the Wellington Park National Forest was observed and was the predominant feature. 					
Topography	Prensa reviewed the online resource LISTmap '1:25000 Topographic Index' which indicated that the Investigation Area and Site were positioned within a valley with the on-site surface elevation ranging from 130 m AHD in the southern portion of the Site to 160 m AHD in the northern portion of the Site. The off-site surface elevation ranged from 150 m AHD for the areas surrounding the southern portion of the Site to 190 m AHD for the areas surrounding the northern portion of the Site The surrounding area generally slopes in a general north west to south easterly direction.					

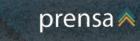


	Table 2: Environmental Setting & Limited Desktop Review					
ltem	Description					
Geology	Prensa reviewed the Reconnaissance Soil Map Series of Tasmania, Hobart Map (1:100,000), published by the Department of Primary Industries, Water & Environment, Tasmania 2000. The map identified that the Site was located across two (2) geological units.					
	The area comprising the Investigation Area was within an area likely characterised by Permian Aged Podzolic soils on mudstone which comprises poor to imperfectly drained grey brown soils. This was consistent with a review of the online resource LISTmap.					
	This generally correlated with field observations which identified the natural soil profile to comprise grey silty clays.					
	The area remainder of the Site, specifically to the east and north of the Investigation Area was within an area likely characterised by Triassic Aged Podzol and Podzolic soils on sandstone.					
Surface Water Receptors	No surface water bodies were present at the Site. The closest surface water receptor was Hobart Rivulet, approximately 450 m south east of the Investigation Area at its closest point. It was noted that the following unnamed water bodies were also identified:					
	 A drainage waterway, located to the immediate west of the Investigation Area; and The Hobart Rivulet was, located approximately 430 m south of the Investigation Area). 					
Groundwater Quality	A search of the Groundwater Information Access Portal on-line database provided through the DPIPWE's Groundwater Information Management System (GWIMS) (accessed on 11 October 2021) indicated the following:					
	 Expected depth to groundwater – range 40 – 50 m bgl based on the review of the installation depth of regional groundwater monitoring wells; and Minimal drilling has been undertaken within these geologies, however Groundwater quality is likely to be similar to that in similar rocks to the north 					
	where salinity is mostly low, allowing for a wide range of uses. These findings were consistent with a review of the Groundwater Prospectively Mag for Southeast Tasmania (1:250,000) published by Mineral Resources Tasmania (MRT), 2006, which is provided as Appendix B .					



	Table 2: Environmental Setting & Limited Desktop Review					
Item	Description					
Groundwater Bore Database	A search of the Groundwater Information Access Portal on-line database provided through the DPIPWE's Groundwater Information Management System (GWIMS) (accessed on 11 October 2021) for groundwater bore usage within a 2 km radius of Site indicated that there were two (2) registered bores.					
	 Review of the two (2) registered bores identified the following pertinent information: One (1) abandoned bore located in South Hobart (Bore Id 17284), approximately 800 m south of the Site. The groundwater bore was drilled to approximately 60 m below ground level and groundwater was encountered during drilling at a depth of 48 m. Additional information including standing water level, lithology and sampling events were not provided; and One (1) abandoned bore located in Lenah Valley (Bore Id 40210), approximately 1.94 km north west of the Site. The groundwater bore was drilled to approximately 54 m below ground level. The depth to groundwater encountered during drilling was not noted. Additional information including standing water level, lithology and sampling events were not provided. 					
	A search of the borehole points of Tasmania (Mineral Resources Tasmania) using the online resource LISTmap indicated that twelve (12) groundwater bores were installed at the Site. Review of the groundwater bores identified the following pertinent information:					
	 The bores were installed with a combination of wither percussion and/or solid auger drilling methods; The groundwater bores were established to depths ranging 11.5-30 m bgl; and Additional information including standing water level, lithology and sampling events were not provided. 					
Groundwater Prospectively	A search of the online resource LISTmap for potential groundwater based on the properties of broad rock groups was undertaken on 6 th October 2021. The online resource indicated that the Site was located within a moderate-high yield fractured rock aquifer characterised by permo-triassic sediments, carbonate sequences (limestone, dolomite).					
EPA Underground Petroleum Storage Systems	A search of the online resource LISTmap for underground storage systems was undertaken on 6 th October 2021. The online resource indicated that the Site was not listed on nor in the immediate vicinity of a property registered to comprise underground petroleum storage systems. The closest properties registered to comprise underground petroleum storage systems were:					
	 An abandoned system at the de-listed property located adjacent 38 Apsley St South Hobart, located approximately 700 m south east of the Site; and A permanently decommissioned system at 16 Degraves St, South Hobart, located approximately 730 m south east of the Site. 					

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	Table 2: Environmental Setting & Limited Desktop Review					
Item	Description					
EPA Regulated Premises	A search of the online resource LISTmap for EPA Regulated Premises was undertaken on 6 th October 2021.					
	The LISTmap search identifies location of Level 2 regulated premises as well as contaminated properties which are currently regulated by EPA Tasmania.					
	The online resource indicated that the Site (which includes the Investigation Area) which operates as a landfill was listed as a premises controlled and regulated by EPA Tasmania. Review of Permit Conditions Environmental (PCE) document (Document Number 9322, Activity 3B2 (Other (non-inert) Waste Depots) identified that:					
	 The Site which operates as the McRobies Gully Waste Depot was listed with a regulatory limit of 85,000 tonnes of receivable waste per year; The landfill which commenced operations in 1975 is highly regulated with ongoing surface, groundwater, leachate and final capping monitoring undertaken; The groundwater monitoring is undertaken at three (3) off-site groundwater wells, however installation details and additional information was not available for review; The landfill is licensed to accept Low Level Contaminated Soil - Level 2; and An environmental review report is made publically available each year and to date no infringement notices has been issued from EPA Tasmania in relation to its operations of the landfill. 					
Potential for Acid Sulphate Soil	A search of the Australian Soil Resource Information System (ASRIS) which includes a map of National Acid Sulfate Soil Reference Sites sourced from the Commonwealth Scientific and Industrial Research Organisation (CSIRO) as well as State and Territory partners was conducted on 6 th October 2021. The search indicated that there was extremely low probability of acid sulfate soil					
	occurrence within the area.					
	In addition, review of LISTmap did not indicate the Site to be within an area characterised by acid sulfate soil.					

6 Site Inspection

Prensa undertook an inspection of the Investigation Area and immediate surrounds during the soil sampling works undertaken on 21st September 2021.

The Investigation Area was located in the southern portion of the Site as illustrated in Figures 1 and 2 attached to this SCA.

During the inspection, the following pertinent observations of the Investigation Area and greater Site area were noted:

- The Investigation Area at the time of the site inspection comprised an exposed soil area and formed part of the greater surrounding area which was utilised for the Resource Work Cooperative of the McRobies Gully Waste Management Centre;
- Minor anthropogenic/building debris in the form of bitumen, brick, glass and metal fragments
 were observed on the exposed soil surface and within the fill profile soil. Spills and/or staining was
 not observed on the exposed soil surface nor within the soil profile;



- The topography of the Investigation Area and the immediate surrounding area was relatively flat, with a slight downward slope toward the south;
- The area in the immediate vicinity of the Investigation Area was observed to comprise:
 - o A storage warehouse to the immediate south of the Investigation Area;
 - An access roadway with a roof covering for domestic waste drop-off was located to the immediate east of the Investigation Area. East of the domestic waste drop-off a warehouse building and associated office area which operated as the 'Tip Shop' was located;
 - Additional domestic waste sorting bays and associated car parking bays were located to the north east and south east of the Investigation Area;
 - An access roadway (McRobies Road) was observed to the north east of the Site which led to the commercial landfill area of the McRobies Gully Waste Management Centre; and
- Visible staining/spills and/or evidence of significant contaminating features in the immediate vicinity of the Investigation Area were not identified or observed during Prensa's inspection. A detailed inspection of the remainder of the property was not undertaken as it was outside the scope of this assessment.

7 Adopted Assessment Criteria

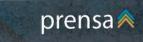
This assessment has been undertaken with regard to the guidelines issued by the EPA pursuant to the Act, EMPCA, NEPM, and other published guidelines and standards.

To assess the significance of contaminant concentrations in soil, reference was primarily made to NEPM 2013, specifically 'Schedule B1 Guideline on Investigation Levels for Soil and Groundwater' (Schedule B1) for assessment criteria, where available. Schedule B1 provides a framework for the use of investigation and screening levels based on human health and ecological risks. In the absence of relative criteria in NEPM 2013, reference was made to other nationally or state endorsed guidelines.

Based on the project objectives, criteria for a commercial/industrial land use for the protection of construction workers during the construction phase of the works and for future users in light of the proposed storage shed development was adopted.

The adopted guidelines for this SCA has been provided in **Table 3** below. Details pertaining to the derivation of these adopted guidelines have been provided in **Appendix C** and **Appendix D**.

Table 3: Hierarchy of Adopted Soil Guidelines							
Environmental Value of Land	Adopted Guidelines						
Ecological	 NEPC, NEPM 2013, Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs). 						
Human Health	1. NEPC, NEPM 2013, Health Investigation Levels (HILs) and Health Screening Levels (HSLs).						
	2. CRC CARE (2011) Technical Report No. 10, Health Screening Levels for direct contact.						
	3. NEPC, NEPM 2013, Management Limits for petroleum hydrocarbon compounds.						
Buildings & Structures	1. NEPC, NEPM 2013, Management Limits for petroleum hydrocarbon compounds.						



8 Soil Assessment

8.1 Sampling Strategy

Prensa collected seventeen (17) soil samples (including QC samples) from five (5) generally gridded soil sampling locations (BH1-BH5) established within the Investigation Area using hand sampling equipment (hand auger). The soil sampling plan of the Site has been illustrated in **Figure 2** attached. Soil samples were generally collected at near surface (0.1 m), 0.5 m and 1.0 m depths or until natural soil was adequately penetrated.

The sampling density was in accordance with the minimum number recommended in AS 4482.1 for a site of this size (200 m²) and provided a hot spot detection diameter of 7.46 m with 95% confidence. This sampling strategy allowed site-wide investigation of sites potentially contaminated by non-volatile and semi-volatile compounds.

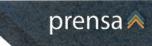
Borehole logs have been provided in Appendix E of this report.

8.2 Soil Screening

Soil samples were screened in the field using a photo-ionisation detector (PID) to provide an indication of the potential of volatile contamination within the samples. The PID was calibrated at the start of the day with isobutylene of a known concentration (95 ppm). The PID calibration certificate has been provided as **Appendix G**.

8.3 Soil Sample Collection

Disposable nitrile gloves were worn during sample collection, which were replaced after the collection of each sample and between sampling locations to avoid cross-contamination. Collected soil samples were placed in 250 mL glass jars with Teflon-lined lids that were prepared and supplied by a NATA accredited laboratory. Collected samples were stored in chilled ice chests and transported to the laboratory within specified holding times, along with chain of custody documentation. Upon completion of soil sampling, sampling locations were reinstated with soil cuttings.



8.4 Soil Analytical Schedule

The analytical schedule adopted for the soil assessment works has been summarised in Table 4 below.

Table 4: Soil Analytical Schedule								
Location ID	Depth	Samples Collected (m)	Samples Analysed (m)	Analyte				
BH1	Fill	0.1	0.1	14-+				
		0.5	0.5	Metals ⁽¹⁾ , PAH ⁽²⁾ , TRH ⁽³⁾ , BTEXN ⁽⁴⁾				
	Natural	1.0	-	-				
BH2	Fill	0.1	0.1	Metals, PAH, TRH, BTEXN				
		0.5	0.5	Metals, PAH, TKH, DTEXN				
	Natural	1.0	1.0	Metals, PAH, TRH, BTEXN, CEC ⁽⁵⁾ , % Fe, pH(CaCl ₂), TOC, % Clay Content, sulphate, chloride				
BH3	Fill	0.1	0.1	Metals, PAH, TRH, BTEXN				
		0.5	0.5	Wetais, PAH, TKH, BTEAN				
	Natural	1.0	-	-				
BH4	Fill	0.1	0.1					
		0.5	0.5	Metals, PAH, TRH, BTEXN				
	Natural	1.0	-					
BH5	Fill	0.1	0.1	EPAV 1828.2 Screen ⁽⁶⁾ ,OPP ⁽⁷⁾ , Acid				
		0.5	0.5	Herbicides, Be, B, Co, Mn, CEC, % Fe, pH(CaCl ₂), TOC, % Clay Content, sulphate, chloride				
	Natural	1.0	-	-				

(1) Metals M17 includes: As, Ba, Be, B, Cd, Cr, Co, Cu, Mn, Mo, Ni, Pb, Hg, Se, Ag, Sn, Zn.

(2) PAH: Polycyclic Aromatic Hydrocarbons

(3) TRH: Total Recoverable Hydrocarbons

(4) BTEXN: Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene

Polycyclic Aromatic Hydrocarbons (PAH) •

(5) CEC: Cation exchange capacity

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(6) The EPAV 1828.2 Soil Screen suite of contaminants includes the following:

Total Recoverable Hydrocarbons (TRH)
• Polychlorinated Biphenyls (PCB) ٠ Benzene, Toluene, Ethylbenzene and

Xylene (BTEX)
 Volatile Organic Compounds (VOC)

- Metals including: As, Cd, Cr, Cr6+, . Cu, Pb, Hg, Mo, Ni, Ag, Se, Sn, Zn
 - Cyanide, Total fluoride & pH

- Phenols Organochlorine Pesticides (OCP)
- (7) OPP: Organophosphorus Pesticides

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9 Findings

9.1 Field Observations

The subsurface lithology was noted to be generally homogenous across the Investigation Area. The fill soil profile was generally encountered to an average depth of approximately 0.6 m bgl.

A summary of the general soil profile encountered has been summarised in Table 5 below.

Table 5: Generalised Soil Profile						
Approximate depth	Domain	Soil Description				
0.0-0.6	FILL	<u>Clayev GRAVEL</u> – encountered from surface to an average depth of 0.6 m bgl with the exception of sampling locations BH1 where the fill profile extended to a depth of 0.7 m bgl.				
		The Clayey GRAVEL fill profile comprised grey/brown, soft, dry to slightly moist, medium plasticity, minor brick, bitumen, glass fragments and significant gravels.				
0.6-1.0	NATURAL	SILTY CLAY – encountered generally below a depth of 0.6 m bgl.				
		Comprised a generally homogenous grey/ brown, soft to firm, slightly moist, medium to high plasticity.				

A number of other key field observations noted during the soil assessment works are summarised in **Table 6**.

- La se a s	Table 6: Field Observations
Surface Cover	The surface conditions comprised exposed soil with anthropogenic material in the form of bitumen, brick, glass and metal fragments were observed on the exposed surface soil and within the fill profile. Visible asbestos-containing material was not observed on the soil surface within the Investigation Area.
Staining	No visible staining was observed in the sampled soil or the soil generated during the sampling event.
Odours	No odours were encountered on the surface or within the soil profile.
PID Readings	Low PID concentrations (<0.3 ppm) were reported.
Waste/Rubble	Minor quantities of anthropogenic materials, (including gravels, bitumen, glass and brick) were identified within the fill soil. Visible asbestos-containing material was not observed during the sampling event.

Further details are provided in the borehole logs provided in Appendix E of this report.



9.2 Analytical Results

9.2.1 Investigation and Screening Levels

The soil analytical results reported contaminant concentrations less than the adopted investigation and screening levels with the exception of these outlined in in **Table 9** below.

The contaminant concentrations reported have been summarised against the investigation/screening levels in **Table A1** in the '**Tables**' section of this report.

Table 7: Summary of Soil Analytical Result Exceedances									
Investigation	Contaminant	Concentration Range (mg/kg)	No. samples analysed	Number of samples greater than investigation/screening levels					
				EIL/ESL	HIL/HS L'A'	HIL/HS L 'B'	HIL/HS L 'C'	HIL/HS L 'D'	ML
Fill	Benzo(a)pyr ene (BaP)	<0.5-3.6 (1.4)	10	3	-	-	-	-	-

* Adopted investigation/screening level provided in brackets.

9.2.2 Statistical Appraisal for Exceedances

Statistical analysis was undertaken on the soil analytical results collated as part of this assessment which were considered to represent a statistically relevant dataset.

In accordance with the NEPM 2013 Guidelines, soil concentrations for the Site are considered to be statistically below the nominated environmental value if the following are met:

- The 95% upper confidence limit (UCL) of the mean contaminant concentrations and the arithmetic mean of a contaminant are less than the relevant investigation/screening level;
- The standard deviation of the results are less than 50% of the relevant investigation or screening level; and
- No single value exceeds 250% of the relevant investigation or screening level.

For waste classification concentrations are considered to be statistically below the adopted criteria if the 95% UCL of the mean contaminant concentrations is less than the adopted criteria.

A summary of the results of the statistical analysis preformed using ProUCL, a statistical program approved by EPA Victoria, is provided in **Table 10**. Detailed outputs of the statistical analysis are provided in the '**Tables**' section of this report.

		Table 8: S	tatistical Ana	alysis Results			
Contaminant	Number of Samples	NEPM (2013) Site Specific EILs (Fill)	Results (mg/kg)				Exceedance of adopted criteria
		Comm/Ind	Maximum Conc.	95% UCL	Mean	SD	(Y/N)
BaP	10	1.4	3.6	1.917 -	2.375	1.352	Y
				95% BCA Bootstrap UCL			

Based on the statistical appraisal provided above, concentrations of benzo(a)pyrene did not satisfy the NEPM statistical criteria in relation to ESLs for a Commercial/Industrial land use.

The ProUCL statistical calculation outputs have been provided as Appendix F.

October 2023



9.2.3 Off-Site Disposal Waste Classification

To provide an indication of the off-site disposal category of soil within the Investigation Area, Prensa has compared the analytical results against the criteria specified in EPA Tasmania Information Bulletin No 105, 2018.

The contaminant concentrations reported have been summarised against the adopted criteria in the **Table A2** in the **'Tables'** section of this report.

Based on the average thickness of the fill profile soil within the Investigation Area (estimated to be approximately 0.6 m), the volume of fill within the Investigation Areas is estimated to be approximately 120 m³ in-situ. The number of samples collected and analysed from the fill soil profile (i.e. ten (10)) was considered appropriate to adequately classify the fill profile soil within the Investigation, should off-site disposal of soil be undertaken.

The analytical results identified in Laboratory Report **826851-S** reported concentrations of contaminants of concern in the fill soil profile to be less than the Fill Material upper limits specified in Information Bulletin No 105, with the exception of copper. However, concentrations of copper were less than the Low Level Contaminated Soil - Level 2 upper limit. Concentrations of BaP and sum of total polycyclic aromatic hydrocarbons (PAH) exceeded the upper limits for Low Level Contaminated Soil - Level 3.

Based on the elevated total concentrations of copper, BaP and total PAH, the 95% upper confidence limit (UCL) of the mean contaminant concentrations was calculated. The 95% UCL of the mean copper concentration (71.38 mg/kg) was less than the Fill Material - Level 1 upper limits. The 95% UCL of the mean BaP concentration (1.917 mg/kg) and total PAH concentration (22.88 mg/kg) exceeded the Fill Material - Level 1 upper limits, however was less than the Low Level Contaminated Soil - Level 2.

Australian Standard Leaching Procedure (ASLP) analysis was conducted on the elevated BaP and total PAH concentrations. The ASLP analytical results reported in Laboratory Report **830197-L** indicated that the leachable concentrations of BaP and total PAH were less than the leached Low Level Contaminated Soil - Level 2 upper limits.

As such, the fill profile soil within the Investigation Area is categorised for the purposes of off-site disposal (should it be undertaken) as Low Level Contaminated Soil - Level 2. As outlined in EPA Tasmania Information Bulletin No 105, 2018, Low Level Contaminated Soil may, in some cases, be suitable for disposal as intermediate landfill cover at nominated municipal landfills. Therefore, given that the fill profile soil within the Investigation Area forms part of the larger McRobies Gully Waste Management Centre, consideration should be given to utilising this soil as landfill cover.



10 Quality Assurance & Quality Control

Prensa reviewed compliance with the procedures and acceptability limits specified in **Appendix H** of this report. The findings of the quality control and assurance review are presented below.

10.1 Quality Control Sampling and Analysis

10.1.1 Blind Replicate and Split Sample RPDs

Blind replicate and split samples were collected and analysed in accordance with the required frequency acceptability limits. The samples were analysed for the same parameters as the primary sample, as specified in **Section 8.4.** A large portion of the contaminants analysed reported concentrations less than the laboratory LOR, whereby relative percentage differences (RPDs) could not be calculated. RPDs were calculated for the quality control samples collected and analysed, where concentrations were reported greater than the laboratory LOR. Concentrations were noted to be within the acceptability limits and has been detailed in **Table 9**. Detailed results are provided in **Table A4** provided in the '**Tables**' section of this report.

Table 9: Blind Replicate and Split Sample RPD Results			
Quality Control Sample	Туре	Primary Sample	RPD Exceedances/Comments
98633M_QC1	Blind Replicate	98633M_BH2_0.1	The RPDs reported were within or below the 30-50% range recommended in AS4482.1 with the exception of copper (-87%) and zinc (-110%).
98633M_QC2	Split Sample	98633M_BH2_0.1	The RPDs reported were within or below the 30-50% range recommended in AS4482.1 with the exception of lead (-151%).

The blind and split samples collected during the soil assessment generally reported RPDs within or less than the 30-50% range recommended in AS 4482.1-2005, with the exception of copper and zinc in the blind replicate and lead in the split replicate. The elevated RPDs are generally considered to be due to the low concentrations of contaminants reported or due to the heterogeneity of contamination in fill.

It is noted that the majority of the RPDs were less than the parameters specified in AS4482.1. Those replicate and duplicate samples which recorded excursions beyond the recommended RPDs are considered unlikely to impact the validity of the dataset and the findings of the assessment.



10.1.2 Rinsate, Field Blank and Trip Blanks

Rinsate, field blank and trip blank samples were collected and analysed during the investigation works at a frequency consistent with the acceptability limits. A summary of the blank sampling and analysis is provided in **Table 10**. The analysis of blank samples was reported to be within the acceptability limits. Detailed results are provided in **Table A5** provided in the **'Tables'** section of this report.

Table 10: Blank Sample Results				
Туре	Blank Sample ID	Date	Analysis	Results
Rinsate	98633M_R1	07/01/2021	TRH, BTEXN, Metals	Concentrations less than LOR.
Field Blank	98633M_FB1	07/01/2021	NA	NA
Trip Blank	98633M_TB1	07/01/2021	TRH (C6-C10)	Concentrations less than LOR.

LOR: Limit of Reporting

NA: Not analysed

10.2 Laboratory Quality Assurance/Quality Control

Review of the reports provided from the primary (Eurofins) and secondary (Envirolab) laboratories indicated that NATA endorsed methods were used and the frequency and findings of laboratory quality control sampling were generally within the acceptability limits with the exception of those specified in **Table 11**.

Table 11: Laboratory Quality Control Sample Results			
Туре	Non-Conformance		
Spike	Selenium and zinc within laboratory report 826851-S		

Whilst the matrix spike recovery was outside of the recommended acceptance criteria, an acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference. As such, it was considered that the laboratory methods adopted were appropriate and the results acceptable.

10.3 Sample Preservation, Handling and Holding Times

Review of sample receipt documentation provided by the laboratory indicated that:

- COC was completed correctly;
- Attempt to chill was evident;
- Appropriately preserved sample containers were used;
- All samples were received in good condition; and
- Sample containers for volatile analysis were received with zero headspace.

An evaluation of the laboratory sample extraction and analysis dates was also undertaken by Prensa. The review of the NATA laboratory reports indicated samples were extracted and analysed with recommended holding times adopted by the laboratory.

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10.4 Data Validation

Based on the above, an assessment of the precision and accuracy of the analytical data has been made.

While some quality control samples were reported outside the specified acceptability limits, these were not considered to significantly impact upon the representativeness of the data. The quality control results indicate that precision and accuracy of the data was within acceptability limits and the results from blind replicate and split sample analysis are comparable.

The results are therefore considered representative of analyte concentrations in the media assessed and are suitable for evaluating its contamination status.

11 Discussion

11.1 Desktop Review and Field Observations

The desktop review indicated that the Investigation Area formed part of a larger property which operated as the McRobies Gully Waste Management Centre, whilst the further surrounding area comprised National Park. Review of LISTmap documentation indicated that the Investigation Area and larger Site was not listed on the EPA Underground Petroleum Storage Systems, however, was listed as a Level 2 Activity on the EPA Regulated Premises Register. It was considered however, that given that Site as operational landfill has been subject to assessment, approval and ongoing surface, groundwater, leachate and final capping monitoring (specifically for areas where landfilling occurs), it would be unlikely that contamination associated with the landfill operations would impact upon the Investigation Area. In addition, given that the surrounding area comprised National Park, it was considered unlikely that off-site sources of contamination would impact the Site and/or Investigation Area.

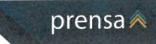
The site inspection undertaken at the time of the soil sampling event observed the Investigation Area was located in the southern portion of the Site and formed part of the area of the Site which comprised and operated as the Resource Work Cooperative waste area. The wider landfill area of the McRobies Gully Waste Management Centre was located further north of the Investigation Areas and was accessed via McRobies Road, approximately 130 m north of the Investigation Areas at its closest point.

The fill profile soil encountered comprised clayey gravels to an average depth of 0.6 m bgl. Minor anthropogenic/building debris in the form of bitumen, brick, glass and metal fragments were observed on the exposed soil surface and within the fill profile soil. Visible evidence of staining or highly odorous soils noted which would suggest the presence of significantly contaminated soil was not observed within the Investigation Area. This was confirmed with the photo-ionization detector (PID) concentrations which reported concentrations of VOCs less than 0.3 ppm.

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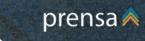
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11.2 Risk to Environmental Value

Potential risks to the environmental values of land are summarised in Table 12 below.

	Table 12: Risks to Beneficial Uses of Land				
Environmental Value	Required to be Protected?	Comments			
Ecological	Yes	The soil analytical results reported contaminant concentrations less than the EIL/ESLs for a commercial/industrial land use with the exception of benzo(a)pyrene (BaP) within the fill profile soil at three (3) sampling locations which exceeded the ecological screening level. However, Prensa considered it unlikely that the elevated BaP concentrations reported in discrete locations within the Investigation Area would pose a significant ecological risk to the highly modified ecosystems present within the Investigation Area, which have likely acclimatised to the soil conditions. In addition, the elevated BaP concentrations were vertically delineated with the underlying natural soil samples reporting concentrations of BaP either less than the laboratory limit of reporting (LOR) or less than the adopted ESL. As such, it was considered that the elevated BaP concentrations were limited to the fill profile soil and unlikely that the reported BaP concentrations would pose a significant ecological risk to the highly modified ecosystems present within the Investigation Area.			
Human health	Yes	The soil analytical results reported contaminant concentrations less than the adopted HIL/HSLs, CRC Care HSLs and Management Limits. As such, It was considered unlikely that the reported contaminant concentrations would pose a risk to construction workers during the construction phase of the works and/or and for future users of the Site in light of the proposed storage shed development.			
Buildings and structures	Yes	Reported pH (as CaCl ₂), chloride and sulphate within fill and natural soil on-site indicated a 'non aggressive' exposure classification for concrete and steel structures. As such, Prensa considers it unlikely that specialised materials would need to be considered and implemented to facilitate the construction of the proposed storage shed development.			
Aesthetics	Yes	During the soil assessment, the fill and natural soils observed were generally free from waste with the exception of minor amounts of anthropogenic materials including brick, bitumen, metal and glass fragments within the fill profile layer. Soils within the Investigation Area were not odorous and no staining or discolouration was observed. As such, soil within the Investigation Area was considered unlikely to represent a significant aesthetic concern.			



11.3 Significance of Results

The field observations made during the soil assessment works identified the fill profile soil to be encountered to an average depth of 0.6 m bgl, with minor quantities of anthropogenic material observed throughout the profile and on the soil surface. Odorous and/or stained soil were not identified in the soil profile. This correlated with the soil analytical results which reported contaminant concentrations less than the adopted ecological and human health investigation/screening levels for a commercial/industrial land use. It was noted that elevated concentration of BaP were reported which exceeded the ecological screening level. However, it was considered unlikely that the elevated BaP concentrations reported in discrete locations within the Investigation Area would pose a significant ecological risk to the highly modified ecosystems present within the Investigation Area, which have likely acclimatised to the soil conditions. In addition, the elevated BaP concentrations of BaP either less than the laboratory limit of reporting (LOR) or less than the adopted ESL. As such, it was considered that the elevated BaP concentrations would pose a significant ecological risk to the highly node a significant ecological risk to the highly not elevated state to the fill profile soil and unlikely that the elevated baP concentrations of BaP either less than the laboratory limit of reporting (LOR) or less than the adopted ESL. As such, it was considered that the elevated BaP concentrations were limited to the fill profile soil and unlikely that the reported BaP concentrations would pose a significant ecological risk to the highly modified ecosystems present within the lnvestigation Area.

As such, based on the findings of this SCA, it was considered that the potential for significant soil contamination to exist within the Investigation Area which may represent a potential ecological and/or health risk to construction workers during the construction phase of the works at the Site and for future users of the Site was low. Furthermore, based on the findings of this SCA, it was considered that further assessment and/or remedial works are not warranted.

In the event disposal of soil is required as an alternative to re-use, the fill profile soil within the Investigation Area is categorised as **Low Level Contaminated Soil - Level 2**, as specified in EPA Tasmania Information Bulletin No 105, 2018.

12 Conclusion

Prensa was engaged by Sedgwick to undertake a Soil Contamination Assessment (SCA) within a nominated area at McRobies Gully Waste Management Centre, 30 McRobies Road, South Hobart, Tasmania (the Site). The nominated area of the Site was denoted the 'Investigation Area' and has been illustrated in **Figure 1** attached.

Based on the findings of the assessment, it was considered that the potential for significant soil contamination to exist within the Investigation Area which may represent a potential ecological and/or health risk to construction workers during the construction phase of the works at the Site and for future users of the Site was low. Furthermore, based on the findings of this SCA, it was considered that further assessment and/or remedial works are not warranted.

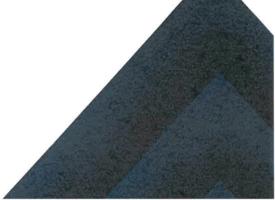
In light of these findings Prensa considered that the compliance requirements, specifically Condition PCL1 of the Potentially Contaminated Land Code- *E2.6.2* of the Hobart Interim Planning Scheme 2015 have been met.

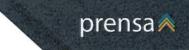
In the event disposal of soil is required as an alternative to re-use, the fill profile soil within the Investigation Area is categorised as **Low Level Contaminated Soil - Level 2**, as specified in EPA Tasmania Information Bulletin No 105, 2018.

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Abbreviations





Abbreviation	Definition
ACM	Asbestos Containing Material
AHD	Australian Height Datum
AMG	Australian Map Grid
ANZECC	Australian & New Zealand Environment & Conservation Council
BaP	Benzo(a)pyrene
BGL	Below Ground Level
DSI	Detailed Site Investigation
EIL	Ecological Investigation Level
EPA	Environment Protection Authority
ESA	Environmental Site Assessment
ESL	Ecological Screening Level
HIL	Health Investigation Level
HSL	Health Screening Level
m	Metres
m²	Square Metres (area)
MGA	Map Grid Australia
mg/L	Milligrams per Litre
MOE	Maintenance of Ecosystems
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
OCP	Organochlorine Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PPM	Parts Per Million
PSI	Preliminary Site Investigation
QA	Quality Assurance
QC	Quality Control
SVOC	Semi-volatile Organic Compounds
SWL	Standing Water Level
TDS	Total Dissolved Solids
TRH	Total Recoverable Hydrocarbons
VOC	Volatile Organic Compounds

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Figures

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30 McRobies Rd, South Hobart, Tasmania Site Location Plan



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30 McRobies Rd, South Hobart, Tasmania Sampling Location Plan



Not to scale - All locations are approximate



Tables

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98633M: Hobart Tip Storage Shed SCA Table A1: Summary of Analytical Results SC172: Sedgwick Claims Management Nictobias Gully Waste Management Contre, 30 McRobies Read, South Hobsel, Damania Metals (hexavalent) (IN+III) I 0/lahifade Barlum rsenic obalt Copper Vickel Boron Lcad line Ē
 might
 <th EQL NEPM (2013) E9, for Commercial/Industrial NEPM (2013) ESL for Commercial/Industrial, Fine Sod 900 3400 NEPM (2013) HSL D for Commercial/Industrial, Clay . CRC CARE (2011) Direct Contact HSL D for Commercial/Industrial CRC CARE (2011) Direct Contact HSL for Intrusive Maintenance Workers AS2159-2009 Piling - Design and Installation for Concrete Piles, Silt and Clay AS2159-2009 Piling - Design and Installation for Steel Piles, Silt and Clay NEPM (2013) Management Limits for Residential/Parkland/Open Space, Fine Soil Field_ID 98633M_BH1_0.1 98633M_BH1_0.5 Sampled_Date-Time 21/09/2021 Matrix_Type SOIL SOIL 21/09/202 SOIL 98633M_BH1_1.0 98633M_BH2_0.1 21/09/2021 21/09/2021 98633M_BH2_0.5 98633M_BH2_1.0 21/09/2021 SOIL 21/09/2021 SOIL SOIL 98633M_BH3_0.1 21/09/202 SOIL SOIL SOIL SOIL SOIL SOIL 21/09/202 98633M_BH3_0.5 98633M_BH4_0.1 21/09/2021 98633M_BH4_0.5 21/09/2021 98633M_BH4_1.0 21/09/2021 98633M_BH5_0.1 98633M_8H5_0.5 21/09/2021 98633M BH5 1.0 21/09/2021 SOIL

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Table A1: Summary of Analytical Results

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98533Mr. Hobart Tip Storage Shed SCA S0172: Seegwick Claims Management McRobies Gully Waste Management Centre, 30 McRobies Rosd, South Hubert, Tasmania

		ì						TR												MAH					
		1							<u> </u>							-			-						
			05-010	F1 (OF-C10 less BTEX)	C10-C16	F2 (CIO-C16 hess NAPHTHALENE)	F3 (C16-C34)	F4 (C34-C40)	cs - c9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	1,2,4-trimethylbenzene	1.3.5-trimethylberzene	Benzene	Ethyllicoue ne	Iso propylbarsane (Cumana)	Styrene	Toluene	Xylene (m & p)	Xylene (o)	Xylene Total	Total MAH
			ma/ka	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ing/kg	mg/kg	mg/kg		mg/kg	ng/kg	mg/k
QL			20	20	50	50	100	100	20	20	50	\$0	50	100	0.5	0.5	0.1	D.1	0.5	0.5	0.1	0.2	0.1	0.3	0.5
NEPM (2013) EIL for Commercial/		1.11					-											100		1.00			_	95	
NEPM (2013) ESL for Commercial				215	-	170	2500	6600			-			1			95	185	11		135			CE.	
NEPIM (2013) HIL D for Commercia				310		NL	-		-	-	-	-	-		-		4	NL	-	-	NL		_	NL	-
NEPM (2013) HSL D for Commerc			2000	310	20000	INL	37000	38000	-	-	-	-					430	27000		-	99000			81000	-
CRC CARE (2011) Direct Contact H			26000	83000	20000	62000	27000	38000 120000	-	-		-	-	-			1100	85000			120000			130000	-
	ISL for Intrusive Maintenance Workers			82000	-	62000	85000	120000	-	-			-			-	1100	83000			120000			130000	-
	Installation For Ecrearete Piles, Silt and Clay						-		-	-		-					-								-
	installation for Steel Piles, Silt and Clay		800	-	1000	-	3500	10000	-	-		-	-			-	-	-	-						-
NEPM (2013) Management Limits	s for Residential/Parkland/Open Space, Fine S	ioil	800		1000		3500	10000		-			-				-					_			
Field ID	Sampled_Date-Time	Matrix_Type																							
98633M_BH1_0.1	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100			<0.1	<0.1			<0.1	<0.2	<0.1	< 0.3	-
98633M_BH1_0.5	21/09/2021	SOIL	<20	<20	<50	<50	280	<100	<20	<20	170	140	310	280	kal s		<0.1	<0.1			<0.1	<0.2	<0.1	<0.3	
98633M_BH1_1.0	21/09/2021	SOIL	-				•				•		-	- ÷			-	-							
98633M_BH2_0.1	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<\$0	<100	2 M.S.		<0.1	<0.1	•	•	<0.1	<0.2	<0.1	<0.3	-
98633M_BH2_0.5	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100	142		<0.1	<0.1		-	<0.1	<0.2	< 0.1	< 0.3	-
98633M_BH2_1.0	21/09/2021	SOIL	<20	<20	<\$0	<50	<100	<100	<20	<20	<50	<50	<50	<100	-		<0.1	<0.1		-	<0.1	<0.2	<0.1	<0.3	•
98633M_BH3_0.1	21/09/2021	SOIL	<20	<20	<50	<50	200	<100	<20	<20	120	95	215	200			<0.1	<0.1		-	<0.1	<0.2	<0.1	< 0.3	
98633M_BH3_0.5	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100			<0.1	<0.1	-		<0.1	<0.2	<0.1	< 0.3	
98633M_BH4_0.1	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100		-	<0.1	<0.1		-	<0.1	<0.2	<0.1	<0.3	-
98633M_BH4_0.5	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100		-	<0.1	<0.1		•	<0.1	<0.2	<0.1	< 0.3	-
98633M_BH4_1.0	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100		-	<0.1	<0.1	- 14 - J		<0.1	<0.2	<0.1	< 0.3	-
98633M_BH5_0.1	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100	<0.5	<0.5	<0.1	<0.1	<0.5	<0.5	<0.1	<0.2	<0.1	< 0.3	< 0.5
98633M_BH5_0.5	21/09/2021	SOIL	<20	<20	<50	<50	100	<100	<20	<20	61	GĐ	121	100		-	< 0.1	<0.1	-	-	< 0.1	<0.2	< 0.1	< 0.3	-
98633M BH5 1.0	21/09/2021	SOIL	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100	142		< 0.1	<0.1	- G - 1	1.00	<0.1	<0.2	<0.1	< 0.3	

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Table A1: Summary of Analytical Results

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98333M: Hobort TJo Storage 5-red SCA 50372: Sedgwick Claims Management Michobies Gully Weste Vionagement Centre, 30 MoRobies Ruad, Scuth Hopart, Tapmania

																							· · · · ·	Plws	ochemical p	roserties	-		
			bithene	shthylene	cene	Janthracene	alpyrene	b+jjfluoranthene	kjfluoranthene	(r,h,l)perylene	the contract of the contract o	(a,h)anthracene	H nthene	pe	o(1,2,3-c,d)pyrene	halene	nthrene		(a)pyrene TÉQ calc (Half)	(a)pyrene TEQ calc (Zero)	(3)pyrene TEQ (LOR)	[sum of total]	n Exchange Capacity	Phys (betaxe snoen)	(qej)	uctivity (1:5 aqueous extract)	ure Content (dried @ 103°C)	(94)	Organic Carbort
			deuao	cenap	uthra	e)zuə	enzot	lenzo	jenzo(senzo(chryse	Dibenz	luora	luorei	ndene	Napht	Piena	Pyrene	Bento	Benzo	Benzo	PAHs	Cation	pH (ac	el) Hq	Condu	Moist	Iron (3	Total
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				mg/kg	mg/kg	mg/kg	MEQ/100G	pH_Units	pH_Units	u\$/cm		%	%
EQL			0.5			0.5	0.5		0.5	0.5			0.5	0.5			0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.1	0.1	10	1	0.01	0.1
NEPM (2013) BIL for Commercial/Inv	dustrial				C Cor	1.50	1.11	1000	-			1.	1000			370													
NEPM (2023) ESt for Commercial/In							1,4					1																	
NEPM (2013) HIL D for Commercial/																			40	40	40	4000		-		_		_	-
NEPM (2013) HSL D for Commercial			-		-	-				_						NL												·	-
CRC CARE (2011) Direct Contact HSL			-													11000					-								-
CRC CARE (2011) Direct Contact HSL			-													29000											1	-	-
	tallation for Concrete Piles, Silt and Clay		-	-					-				-												<5.5				-
AS2159-2009 Pilling - Design and Inst AS2159-2009 Pilling - Design and Inst			-		-											-					-		1		<				-
	or Residential/Parkland/Open Space, Fine S	Coll	-	-			_		-	-															-				
NEPM (2013) Management Umits in	or residential/Parioana/Open space, rive	301			-							_																	
Field_ID	Sampled_Date-Time	Matrix_Type															1										13		_
98633M_BH1_0.1	21/09/2021	SOIL	<0.5		<0.5		<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5		<0.5	<0.5		<0.5		<0.5				-	13	-	÷
98633M_BH1_0.5	21/09/2021	SOIL	0.8	0.5	1.5	3.1	3,4	1.8	2.9	2.8	3	0.7	12	1.5	3	< 0.5	6.8	11	5.2	5.2	5.2	54.8	· ·	•			- 10		1
98633M_BH1_1.0	21/09/2021	SOIL	<0.5	<0.5	<0.5	0.5	0.9	<0.5	<0.5	0.8	0.8	<0.5	2.8	<0.5	0.7	< 0.5	1	2.6	1.3	1	1.6	10.1	· · · · ·	-			7		-
98633M_8H2_0.1	21/09/2021	SOIL	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	0.6	<0.5	1.2	<0.5				÷.	17		÷
98633M_BH2_0.5	21/09/2021	SOIL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	0.6	<0.5	1.2				7.5			2.7	11
98633M_BH2_1.0	21/09/2021	SOIL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	0.6	<0.5	1.2	<0.5	19			58		2.7	4-4
98633M_BH3_0.1	21/09/2021	SOIL	<0.5	<0.5	0.5	2.1	3.6	1.5	1.7	2.4	2.1	<0.5	5.9	<0.5	2.2	< 0.5	2	6.2	4.6	4.4	4.9	30.2	A				21		
98633M_BH3_0.5	21/09/2021	SOIL	< 0.5	<0.5	1.2	0.7	0.8	0.9	0.7	0.5	1.1	<0.5	1.7	<0.5	0.6	< 0.5	0.9	2	1.4	1.1	1.6	11.1		-		:		-	-
98633M_BH4_0.1	21/09/2021	SOIL	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	0.6	< 0.5	1.2	<0.5	* .	*			21	-	<u> </u>
98633M_BH4_0.5	21/09/2021	SOIL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	0.6	<0.5	1.2	<0.5	•	+	•		28		
98633M_BH4_1.0	21/09/2021	SOIL	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	0.6	<0.5	1.2	<0.5				-		- 0.72	0.5
98633M_BH5_0.1	21/09/2021	SOIL	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	0.6	<0.5	1.2	<0.5	5.2	7.2	6.6	37		0.73	0.4
98633M BH5_0.5	21/09/2021	SOIL	< 0.5	<0.5	<0.5	1.1	1.7	0.8	0.9	0.9	0.9	<0.5	3.4	<0.5	0.7	< 0.5	0.8	3.3	2.3	2.1	2.6	14.5 <0.5	*		•	· ·	19 23	14	100
98633M BH5_1.0	21/09/2021	SOIL	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5												

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98633M': Hobert Tip Storage Shed SCA 50172: Sedgwick Claims Management Michabies Gully Waste Management Centre, 50 M'cRobies Road, South Hobert, Teamaile Table A1: Summary of Analytical Results

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			Ania	ns and C	ations	thorganics		_					Phenol	ls								Ha	logenate	d Benzer	165		
			Vide	epix	a trous	inter Joss	dimethy (phend	diatrophenol	et hylphenol	trophenol	4-methylphenol	Dinitro-2-methylphenol	Dinitro-o-cyclahexyl phenol	o dora-3-methy/phenol	trophenol	sol Tetal	nol	nois (Total Halogenated)	nois (Total Non Halogenated)	4-trichlorabonzene:	dichlorobenzene	dichlorobenzene	dichlorobenzene	larotoluene	mothemen e	srobenzene	achlarobenzene (HCB)
			Chio	Fluo	Sulp	Cyan	2,4.4	2.4.4	2 m	2.01	3.5	4.6	4,6-1	4	1 and a	g mg/kg	Phe	Phe	e la	1,2,4	1,2	mg/kg	4 H	1 T	Dec.	- B	Hek
EQL			mg/kg 5	100 mg/kg	mg/kg 30	rng/kg	0.5	m/2/KR 5	0.2	mg/kg	0.4	0.5	20	1 mg/ng	nis/kg 5	0.5	mg/kg 0.5	1 mg/kg	20	0.5	0.5	0.5	0.5	0.5		0.5	
NEPM (2013) EIL for Commercial/Industrial	the second s		-	100	50	-	0.5	-	0.4	-	6.74	0.7	20		A COLUMN TWO IS NOT	0.5	913	-	65	J		4.4	- Chapt	- Could	0.11	0.17	
NEPM (2013) ESL for Commercial/Industrial, Fine	Coll						-				1	-			-					-	1000						
NEPM (2013) HIL D for Convercial/Industrial	1.001		-							-	-					25000	240000			-	-		-	-	-	-	80
NEPM (2013) HSL D for Commercial/Industrial, (Clav		-	-		-			-			-														-	
CRC CARE (2011) Direct Contact HSL D for Comm			-		-				1												-		-			-	
CRC CARE (2011) Direct Contact HSL for Intrusive			-																								
AS2199-2009 Piling - Design and Installation for I			-	-	5000				-			1			-		-										
AS2158-2009 Piling - Design and Installation for 5			5000						1																	-	
NEPM (2013) Management Limits for Residential		oil			-						-	_															
Field_ID	Sampled_Date-Time	Matrix_Type																_									
98633M_BH1_0.1	21/09/2021	SOIL		•										-	-			•		•		•	-	-	-		•
98633M_BH1_0.5	21/09/2021	SOIL	•	•	141		-		-	-	-		- 14	•		•			- 24			-		-		-	•
98633M_BH1_1.0	21/09/2021	SOIL							·	······						1		•	- 4	•	-	-		•		-	•
98633M_BH2_0.1	21/09/2021	SOIL	*		-		-		-		-	•	•		-	•	•	•	-		•	-		-	-		· ·
98633M_BH2_0.5	21/09/2021	SOIL	. <u>+</u>		· •		•				-	÷.	- 14	-		. ×.		•		-		- 4	•	•	-		•
98633M_8H2_1.0	21/09/2021	SOIL	41	•	<30		•				-	. A	- in		-	+			. 4				-	-			
98633M_8H3_0.1	21/09/2021	SOIL					× .					- × - 1		-	-		•	•		•			-		-	•	•
98633M_BH3_0.5	21/09/2021	SOIL	· · · ·	· · · ·			·	-	•	-		•		•		•	•		•	•		•		•	-		•
98633M_BH4_0.1	21/09/2021	SOIL									-			•	-	- <u>*</u>		· ·	•	•		- 1 ,	-	-	-		
98633M_BH4_0.5	21/09/2021	SOIL	1.10	- 14	-	44.		-	· •				•	-	-	•.			-		×		-	-	· •	- a	-
98633M_BH4_1.0	21/09/2021	SOIL	- K.	×	•		· · · · ·		-		-				· · · ·				•	· · ·			-			•	•
98633M_8H5_0.1	21/09/2021	SOIL	<5	<100	<30	<5	< 0.5	<5	c0.2	<1	<0.4	<0.5	<20	<1	<5	≪0.5	<0.5	<1	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0,5	<0.05
98633M_BH5_0.5	21/09/2021	SOIL					•		-				-	-	-	. *	-			-							•
98633M BH5 1.0	21/09/2021	SOIL			-								-	· ·			-		· •		×		-				· ·

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Table A1: Summary of Analytical Results

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9883301 Hobart Tip Storage äined SCA 50272: Sedgelick Clains Management Monohier Cully Woste Management Coulze, 80 McRobies Roac, South Holart, 156mania

				Halogena	ited Hyd	rocarbon	5			Halog	enated P	henois					-		Herb	icides				
			,2-dibramoethane	fromomethume	Dichlorodifluoromethane	odomethane	Frichliorofluoromathane	c,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chioraphenol	Pentachlorophenol	tetrachiorophenols	2,4.5-Trichlorophenoxy Acetic Add (2,4,5-T)	2,4,5.7P [SIlvex]	Hedonal (2,4-D)	2,4-Dichlorprop	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-D8)	Dicamba	Dinoseb	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	2-Methyl-4-Chlorophenoxy Butanoic Acid (MCPB)	Mecoprop
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			mg/kg		mg/kg	mg/kg		mg/kg		mg/kg	mg/kg	
EQL			0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	1	10	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM (2013) EIL for Commercial/In	dustrial			1.		1.17.10.1							1		1		Sec. 2							
NEPM (2013) FSI, for Commercial/In	ndustrial, Fine Soll												10000					-				27		300
NEPM (2013) HIL D for Commercial	/Industrial												660		5000		. 9000					5000	5000	500
NEPM (2013) HSL D for Commercia	al/Industrial, Clay												-										-	-
CRC CARE (2011) Direct Contact HSI									_	-											_			-
	L for Intrusive Maintenance Workers								_		_							-						-
	stallation for Concrete Piles, Sili and Clay				1							-						-			-			-
	stallation for Steel Piles, Slit and Clay		-						-		-	-										_	_	-
	or Residential/Parkland/Open Space, Fine	Soll								-												_		_
Field_ID	Sampled_Date-Time	Matrix_Type											_				-					-		-
98633M_BH1_0.1	21/09/2021	SOIL	•			•		· .	-		•	•					•		171				•	· ·
98633M_BH1_0.5	21/09/2021	SOIL		1.0	÷.			· ·	•	÷					•				140	•	-		•	-
98633M_BH1_1.0	21/09/2021	SOIL		1.10	-	1.0	-	•	•		-	· ·		×.					×	*.		· *		- :
98633M_BH2_0.1	21/09/2021	SOIL				-			•							- (8)	•		•	•	-	•		-
98633M_BH2_0.5	21/09/2021	SOIL		•		•		· ·	•	. A.	•		-					•		· · ·				· ·
98633M_BH2_1.0	21/09/2021	SOIL			~	2.45	· ·	•	•		· ·	•		•	· ·		•			~	-			
98633M_BH3_0.1	21/09/2021	SOIL							•		•						•	•	*	-			_	-
98633M_BH3_0.5	21/09/2021	SOIL		141	 K 		· *		•					•	1.1	· *			1		•	•	•	1
98633M_8H4_0.1	21/09/2021	SOIL		14	-															-			•	-
98633M_BH4_0.5	21/09/2021	SOIL								×					· ·	- 147						*	-	
98633M_BH4_1.0	21/09/2021	SOIL	- N	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	1. ×	-		•		-						-		-		-		-	-0.5	
98633M_BH5_0.1	21/09/2021	SOIL	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	< 0.5	¢λ	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0
	21/09/2021	SOIL			-			-					1 4 1							× .			1.4	
98633M_8H5_0.5	21/03/2021	30%	-		_																			

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I able A1: Summary of Analytical Results

9863314: Hotart Hp Storage Shed SCA 90172: Sedgudra Claima Management McRubles Cully Wasie Management Centre, 30 McRubles Road, South Hobart, Tazarania

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														0	CP											
			Drganochlorine pesticides EPAVic	Diher organochlorine pesticides EPAVic	14-DDE	PBHC	Adrin	Aldrin + Dieldrin	P-BHC	chlordsne	4-BHC	000	bor	001+000+000	Dieldrin	Endosulfan I	(mdasulfan îl	Endiosalfan sui phate	Endrin	Endrin afdehyde	- Adrin ketone	e-BHC (Lindane)	Heptachlor	Heptsichlor epoxide	Methoxychlor	Toxaphene
			ng/kg	mg/kg	rng/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	nig/kg	mg/kg	me/kg	mg/kg	mg/kg						mg/kg	g mg/kg
EQL			0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0,05	0.05	0.05	0.05	0.05	0.05	D.5
NEPM (2013) EIL for Commercial/Industria	əl												640									1000				-
NEPM (2013) ESL for Commercial/Industri	ial, Fine Soil																									1
NEPM (2013) HIL D for Commercial/Indust								45		530				3600					100				50		2500	160
NEPM (2013) HSL D for Commercial/Indu	strial, Clay			1	-									· · · · · · ·		1			1							_
CRC CARE (2011) Direct Contact HSL D for	Commercial/Industrial									C	· · · · ·											· · · · · · · · · · · · · · · · · · ·		_	_	
CRC CARE (2011) Direct Contact HSL for In	trusive Maintenance Workers			·												-						-	_		_	-
AS2159-2009 Piling - Design and Installation	on for Concrete Piles, Silt and Clay																		-	_			_		_	
A\$2159-2009 Pilling - Design and Installation	on for Steel Piles, Silt and Clay					-				_	·						_	_			_					
NEPM (2013) Management Limits for Resi	idential/Parkland/Open Space, Fine	Soil					-									1	-									-
Field_ID	Sampled_Date-Time	Matrix_Type																								
98633M_BH1_0.1	21/09/2021	SOIL			145	1.4	•					14			1.00		•				1.0		187	· ·	1.5	
98633M_BH1_0.5	21/09/2021	SOIL					_A.,	L_R_		•		- ×	14		14 1		- b		_	-	•			· • ·		-
98633M_BH1_1.0	21/09/2021	SOIL	•	•	285		- (e - 1)	- K -			-	-			-				-			A				-
98633M_BH2_0.1	21/09/2021	SOIL		•	•			C. K.,				. 9	× .	•	1.14	•	- 14		-	- 14 - I	- 18.	×	1.00	•	10	
98633M_BH2_0.5	21/09/2021	SOIL		•		-	- IR	- N	•	-	· · · ·				- N		. in		-	-				· · ·	· · · ·	· · ·
98633M_BH2_1.0	21/09/2021	SOIL	•	•	261	•	(# 3)	1 R	-		•	- 0	0.0				- 8 ° °	•	-	•	•	· • ·	•		•	-
98633M_BH3_0.1	21/09/2021	SOIL		· · · · · · · · · · · · · · · · · · ·				· · · ·			-	· •	•	-	•	L				. h.	•	, ×	28	. ×		
98633M_BH3_0.5	21/09/2021	SOIL			1.00				1 R (-	- 15				1.4.1	8.	•	•		· ·	·	A	- X	<u> </u>	•
98633M_BH4_0.1	21/09/2021	SOIL	1.1		<u></u>	•	1.20		1.1				240		1.14	10.0	- 20				-	8	197		1	•
98633M_BH4_0.5	21/09/2021	SOIL					- 64 - 5	1.1							A	<u></u>					· •			<u> </u>		
98633M_BH4_1.0	21/09/2021	SOIL					- 9-7	1.1		-	•		195	•	- 124						•		10	0.1	12.1	
98633M_BH5_0.1	21/09/2021	SOIL	<0.1	e0.1	<0.05	<0.05	<0.05	<0.05	<n.05< td=""><td>40.1</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.35</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.0></td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.03</td><td><0.05</td><td><0.05</td><td><0.5</td></n.05<>	40.1	<0.05	<0.05	<0.05	<0.35	<0.05	<0.05	<0.05	<0.0>	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.5
98633M_BH5_0.5	21/09/2021	SOIL	•		141				1.2			5	0.44							1 A		×		-		
									_			-	-													

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abart Tip Storage Sneel SCA puick Claims Management I J y Waste Management Centre, 30 Mel	Robles Road, South Hobard, Taamania									Table A 1	: Summa	ny of Ana	lytical Rei	suits																	р	ren
											-						OP	P	-								_					
			methyk	(Sulprofes)	nphos	55	by the second	55	0				e		an a		ц	rien				srathion	is (Phosdria)	to p has	brom]	te.		50			nate	Silvepro, and
			mg/kg	olstar	P. Chlorfenvi	Chlorpysille	a// ^g Chlorpyrlf	mg/kg	Demetor-	Demeton-	.mg/kg	mg/kg	Dimethoa	bisulfoton	Ethion mg/kg	Ethoprop	Behitroth	al Fernsulfort	5,/3u	Malathior	Merphos	market and	mg/kg	Monocrol	sy/su	Broethoa Broethoa	Ny/M	Pyrazoph	mg/k	a Terbufos	Trichlero	a Tatrachio
EQL			0.7	0.2	0.2	0.2	0.2	2	6.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.2	2	0.2	2	0.2	0.2	0.2	0.2	0.2	0
NEPM (2013) BL for Commercial/In	ndustrial		1000		1	1000	1		1	1	1	1.00									127										dia in	-
NEPM (2013) ESL for Commercial/In			1		1.	1				-	1	1														-		-			A STREET	
NEPM (2013) HIL D for Commercial			1	-		2000		1																					-		-	1
NEPM (2013) HSL D for Commercia			-	-				-	-			1															_			-	-	-
CRC CARE (2011) Direct Contact HS			-		-	-													-	1									_	_	-	_
	St. for Intrusive Maintenance Workers		-	-	-	-	-	-																							-	_
			+		-		-	-			-	-															-		-	-	-	-
																											-		-	_	-	-
AS2159-2009 Piling - Design and Ins	stallation for Concrete Piles, Silt and Clay stallation for Stort Piles, Silt and Clay			-			-		-	-								· · · · · ·							_							
AS2159-2009 Piling - Design and Ins AS2159-2009 Piling - Design and Ins	stallation for Steel Piles, Six and Chay	Soil		-		-	-	-		-		-	-			-					-				-				_	_		
AS2159-2009 Piling - Design and Ins AS2159-2009 Piling - Design and Ins NEPM (2013) Management Limits f Field_ID	stallation for Steel Piles, Six and Chay for Residential/Parkland/Open Space, Fine Sampled_Date-Time	Matrix_Type																								 .			·	1. •		T
AS2159-2009 Piling Design and Ins AS2159-2009 Piling Design and Ins NEPM (2013) Management Limits fi Field_ID 98633M_BH1_0.1	utaliation for Steel Piles, Siz and Clay for Residential/Parkland/Open Space, Fine Sampled_Date-Time [21/09/2021	Matrix_Type SOIL						-	-								•												· ·		· ·	Ŧ
AS2159-2009 Piling Design and Ins AS2159-2009 Piling Design and Ins NEPM (2013) Management Limits fr Field_ID 98633M_BH1_0.1 98633M_BH1_0.5	utalistion for Stoel Piles, Six and Clay for Residential/Parkland/Open Space, Fine Sampled_Date-Time 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL	-			•	- W-		•								•	•	•									- - -		_	_	
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AS2159-2009 Piling - Design and Int AS2159-2009 Piling - Design and Int NEPM (2013) Management Limits for Field_D 98633M_8H1_0.1 98633M_8H1_0.5 98633M_8H1_1.0 98633M_8H1_1.0	utalijetion for Stoci Piles, Sit and Clay for Residential/Parkland/Open Space, Fine Sampled_Date-Time 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL	•			•	*	-	· ·	:	•	•		3. 	- 2	•	-	•	•	*: #:		•	•		•	· ·	•			•	•	
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ASI359-2009 Filling. Decign and Im VEPM (2013) Management Limits f Field_ID 96633M_BH1_0.1 96633M_BH1_0.5 96633M_BH1_0.5 96633M_BH1_0.5 96633M_BH1_0.5 96633M_BH1_0.5 96633M_BH1_0.5 96633M_BH2_0.1 96633M_BH2_0.1	Ltillplon for Stoof Piles, Size and Clay for Residential/Parkland/Open Space, Fine Sampled, Date-Time 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL						· · · · · · · · · · · · · · · · · · ·	· · ·	-	•			3. 	- X - X - X - X	•		•	•			· · · · · · · · · · · · · · · · · · ·		• • •	-	· · ·	•	· · · · · · · · · · · · · · · · · · ·			•	
A21152-2005 Filling. Design and its A21152-2005 Filling. Design and and A21152-2005 Filling. Design and and htFPM (2013) Management Limits fi Pield (10 98653M, BHL 0.1 98653M, BHL 0.1 98653M, BHL 0.1 98653M, BHL 0.1 98653M, BHL 0.1 98653M, BHL 0.1 98653M, BHL 0.5	utiliption for Stoof Piles, Size and Clav for Residential/Parkland/Open Space, Fine [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021] [21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL						· · · · · · · · · · · · · · · · · · ·	· · ·	· ·	•			3. 		•	•	•			•	•		•			· · ·	· · · · · · · · · · · · · · · · · · ·		· · ·	•	
A21159-2009 Filling, Decign and In A21159-2009 Filling, Decign and Int XEFP4 (2013) Management Limits f Field (D 98633M, BH1, 0.5 98633M, BH1, 0.5 98633M, BH2, 0.1 98633M, BH2, 0.1 98633M, BH2, 0.1 98633M, BH2, 0.1 98633M, BH3, 0.5 98633M, BH3, 0.1 98633M, BH3, 0.5 98633M, BH3, 0.1	Ltillplon for Stoof Piles, Siz and Clay for Residential/Parkland/Open Space, Fine Sampled, Date-Time 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL				· · · · · · · · · · · · · · · · · · ·			· · · ·	-	•			3. 	- X - X - X - X	•	•	• • • • •	- - - - - - - - - - - - - - - - - - -			• • • • •		•							•	
52125-2009 Filling. Design and its 52125-2009 Filling. Design and its 52125-2009 Filling. Design and its 5125-2009 Filling. Design and its 5125-2009 Filling. Design and its 5125-2009 Filling. 56633M, gH1, 0.1 56633M, gH1, 0.5 56633M, gH2, 0.5 56633M, gH3, 0.1 56633M, gH4, 0.5 56633M, gH4, 0.5	utilijitelin for Stoof Piles, Silv and Clav for Residential/Parkland/Open Space, Fine [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021] [21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL							· · · ·	· ·	•					•		• • • •	- - - - - - - - - - - - - - - - - - -			- - - - - - - -		•			· · · · · · · · · · · · · · · · · · ·				•	
Failsback Source Scillsback Source </td <td>Ltillplon for Stoof Piles, Siz and Clay for Residential/Parkland/Open Space, Fine Sampled, Date-Time 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021</td> <td>Matrix_Type Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit.</td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>• • • • • • • • •</td> <td></td> <td></td> <td></td> <td>- - - - - - - - - - -</td> <td></td> <td>•</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ltillplon for Stoof Piles, Siz and Clay for Residential/Parkland/Open Space, Fine Sampled, Date-Time 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit. Soit.				· · · · · · · · · · · · · · · · · · ·												• • • • • • • • •				- - - - - - - - - - -		•		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
A1152-2009 Files, Design and In A2152-2009 Files, Design and In NEPM (2013) Management Limits f Field 10 S6633M, gH1, 0.1 S6633M, gH1, 0.1 S6633M, gH1, 0.5 S6633M, gH1, 0.1 S6633M, gH2, 0.1 S6633M, gH2, 0.1 S6633M, gH3, 0.1 S6633M, gH4, 0.1	utilijitelin for Stoof Piles, Silv and Clav for Residential/Parkland/Open Space, Fine [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021 [21/09/2021] [21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL				· · · · · · · · · · · · · · · · · · ·			· · · ·		•					•		• • • • • •	- - - - - - - - - - - - - - - - - - -			- - - - - - - - - - - -					· · · · · · · · · · · · · · · · · · ·			· · · ·		

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Table A1: Summary of Analytical Results

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9803304: Hobert Tro Storege Shed SCA 50:72 - Sodgwick Claims Management MicRobies Gaily Waste Management Center, 30 McRobies Road, South Hobert, Tasmania

			Pest	icides				P	СВ				SVOC			Solvents		
			Parathion	Pirimiphos-methyl	Arochior 1016	Arochilor 1221	Arochior 1232	Arochiar 1242	Arochior 1248	Arochior 1254	Arochior 1260	PCBs (Sum of total)	EPN	Methyl Ethyl Ketone	4-Methyl-2-pentanone	Acetone	3-Chloropunpene (Allyi chioride)	Carbon disuifide
			mg/kg	mg/kg	mg/kg	marke			mø/kg	Image: constraint of the								
iq.			0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.5	0.5	0.5
(EPM (2013) Elk for Commercial/Industri					1			1						_		Image: constraint of the second sec		
(EPM (2013) ESL for Commercial/Industr			-						1.1	1	2			2		2	(minimized in the second	
NEPM (2013) HIL D for Commercial/Indus			-			-		-		-	1	7.5	-	-	-	Sector Sector<		
NEPM (2013) HSL D for Commercial/Indu			-	-	-			-		-		_		Home Participant Image Participant Image Participant Image Participant M Mark Participant Mark Participant Mark Participant Mark Participant Mark Partic				
			-							-	Image: section of the sectio							
	Figure Figure<		-															
							-	-		_								
			-			-			_			_						_
VEPM (2013) Management Limits for Res	idential/Parkland/Open Space, Fine	Soil												_	-			
Field_ID	Sampled Date-Time	Matrix Tuno																
98633M_BH1_0.1			1.															
08633M_BH1_0.5																		-
08633M_BH1_1.0											-							
98633M_BH2_0.1																		
8633M_BH2_0.5																•		
8633M_BH2_1.0				•					-	-	-	- ÷ .			-			-
8633M_BH3_0.1						-			-		-				•			
8633M_BH3_0.5			· ·	•	-	-		-	•					•	•	-		-
8633M_BH4_0.1		SOIL	•	-	-										-			
8633M_BH4_0.5		SOIL				1. 2		-			-			. (*	•	-	- 14 T	-
8633M_8H4_1.0	21/09/2021	SOIL		-	-		•				-	-		- 4 - J				
8633M_BH5_0.1	21/09/2021	SOIL	<6.2	<0.2	<0,1	<0,1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	< 0.5	< 0.5	<0.5	<0.5	< 0.5
98633M_BH5_0.5	21/09/2021	SOIL			-		-		×	•					-		54	-
8633M BHS 1.0	21/09/2021	SOIL																

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98888W: Hobart Tip Storage Shed SCA 50,72, Sedgatck Calms Management McRobies Gully Waste Ronagement Ce	ntre, 30 McRubies Noac, South Hobert, Tesnie	nia									Table A	41: Sumn	nery of A	nalytical	Results																	pr	rensa	
																Chlo	rínated k	lydrocarl	bons	_		_	_	-								-	Organic	Other
			ユルユン tetrachleroethane	1,1,1-trichtoroethane	1,1,2,2-tetrachloroethene	1, J.Z.4richloroethane	1,3-dichloroethane	1,1-dichlorpethene	1,2,3-trichioropropane	1,2-dichloroethan#	1.2-dichleropropane	1,3-dichlerapropare	Bromochionomethane	Bromodichioromethance	Bromotorm	Gerbon tetrachioride	Chlorodibromomethane	Chloreethane	Chiareferm	Chloremothane	cis-1,2-dichila roethena	cts.1,3-dichiorapropane	Dibromethane	Dichloromethane	Hexachiorobutadiene	Trichlaroathene (TCE)	Tettachloroethene [PCE]	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	Chlorinated hydrocarbons EPAVIC	, Other chlorinated hydrocarbons EPAVIc	, Actril (losynil)	Tokuthion
			mg/kg		mg/kg	mg/kg	mg/kg						ing/kg	mg/kg	mg/kg	mg/kg	mg/kg	ing/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg 0.5	ing/kg	mg/kg 0.5	mg/kg	mg/kg	mg/4gt 0.5	mg/ <g 0.5</g 	mg/kg U.5	mg/kg	m ty/kg 0.5	71g/kg 0.2
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	D.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5	0.0		U.L
NEPM (2013) Fill for Commercial/Ind	fustrial										-	Contraction of the local division of the loc	1						1															1
NEPM (2013) ESL for Commercial/Ani	dustrial, Firm Soll		-		1	Sec.	1	-				1948 A.M. 194					0		-	and and a second second								-		-	1			
NEPM (2013) HIL II for Commercial/	Industrial		· .														-										-					-		-
NEPM (2013) HSL D for Commercial	/Industrial, Clay					_	(C		-	_				-	-																			
CRC CARE (2011) Direct Contact HSL	D for Commercial/Industrial			A													_	_	-			-						-			-	\rightarrow		
	for Intrusive Maintenance Workers			1									_				_		-	-					-									
A\$2159-2009 Pilling - Design and Inst	allation for Concrete Piles, Slit and Clay																												-					-
AS2159-2009 Pilling - Design and Inst	collation for Steel Piles, Set and Clay					-	-	-	-	_		_		_		_			-		-	-	-			-		-	-	_	-	-		+
NEPM (2013) Management Limits for	r Residential/Parkland/Open Space, Fine	Soll					_		_	_		_	-	_	-	-	_					-		-							_			-
Field_ID	Sampled_Date-Time	Matrix_Type	_				-		1.1										1 2 .	- 4 -								1.4	1.1					
98633M_BH1_0.1	21/09/2021	SOIL			-		-		-			1.1	1.00							•				· •.	-			1.14-	-		141			
98633M_BH1_0.5	21/09/2021	SOIL		1	-								1.0	- 23		1.04				1.1	-			5 m.	•									
98633M_BH1_1.0	21/09/2021																	-				1		1. AL					1.4		- 265			
98633M_BH2_0.1	21/09/2021	SOIL	-				1			-				- A. 1															1.11		14			
98633M_BH2_0.5	21/09/2021	SOIL	_	· ·																			•		-				*					
98633M_BH2_1.0	21/09/2021	SOIL	· ·	•			_	1						1		-						1 A.		· ÷.				- in	. A.		•			
98633M_8H3_0.1	21/09/2021	SOIL											1.0											1.1.4						-	-		-	
98633M_BH3_0.5	21/09/2021	SOIL			•				- <u></u>	-		-				-												100						
98633M_BH4_0.1	21/09/2021	SOIL	· ·						-					1		-	-	-				-						- 60	-					
98633M_BH4_0.5	21/09/2021	SOIL	· ·				-			-			1.0		-							1.8		1.1	-	-	1.1							
98633M_BH4_1.0	21/09/2021	SOIL	-0.5	-		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	-0.5	<0.5	\$0.5	<0.5	<0.5	<0.5	<0.5	<0.5	\$0.5	<0.5	<u.5< td=""><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><u.2< td=""></u.2<></td></u.5<>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<u.2< td=""></u.2<>
98633M_BH5_0.1	21/09/2021	SOIL	40.5	<d.5< td=""><td>-10.5</td><td>40.3</td><td>40.0</td><td>e0.5</td><td>10.0</td><td></td><td>NV.7</td><td>-to d</td><td>-</td><td></td><td></td><td></td><td>1.1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></d.5<>	-10.5	40.3	40.0	e0.5	10.0		NV.7	-to d	-				1.1								-									-
98633M_BH5_0.5	21/09/2021	SOIL					-				-	-	-				-			-		-									100			
98633M_BH5_1.0	21/09/2021			11 A T										-		-	· · · · · · · · ·													-	-			

Table A2: Summary of Analytica Results

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98833 M: Hobart Tip Storage Shed SCA 50172: Sedgw ck Claims Management Michebins Bully Wuste Management Centre, 30 McRobies Rood, South Hobart, Tasmania

	-	P	hysiochemic	al proper	ties		_		Anio	ns and Ca	tions	Inorganics
	5001/OBM	tip [stateous extract]	(qep) Hd bH Units	Sconductivity (1:5 aqueous extract)	% Moisture Content (dried @ 103°C)	sc iron (%)	ge % Clay*	2 Total Organic Carbon	Chloride 33/Jau	Ruoride 88/88	a Sulphate	S S S S S
					70				mg/ kg			
λΓ.	0.05	0.1	0.1	10	1	0.01	1	0.1	5	100	30	5
							1		1.11	THEFT	100 A	25087
formation Bulletin No 105 Low Level Contaminated Soll - Level 2										3000		1000
formation Bulletin No 105 Fill Material - Level 1		<4 or >9	100 C	-						300		32

Field_ID	Sampled Date	Matrix_Type			1				-					
98633M_BH1_0.1	21/09/2021	SOIL					13	•			-		-	-
98633M_BH1_0.5	21/09/2021	SOIL				-	18	•				. A	· _ • _ ·	•
98633M_BH2_0.1	21/09/2021	SOIL			· · · ·	1 . t	7							
98633M_BH2_0.5	21/09/2021	SOIL				-	17			-	-			
98633M_BH2_1.0	21/09/2021	SOIL	19		7.5	58	21	2.7	10	1.1	41		<30	-
98633M_BH3_0.1	21/09/2021	SOIL		1.1.1			21	· ·	-	· •	-	1.8.1		
98633M_BH3_0.5	21/09/2021	SOIL		-		-	22	-		-	-	•		-
98633M_BH4_0.1	21/09/2021	SOIL					21	•			-	- · · ·		
98633M_BH4_0.5	21/09/2021	SOIL	· · ·		-	-	28	-	- 1	-	-		-	-
98633M_BH4_1.0	21/09/2021	SOIL				-	20	-		-				
98633M_BH5_0.1	21/09/2021	SOIL	5.2	7.2	6.6	37	9.2	0.73	<1	0.4	<5	<100	<30	<5
98633M_BH5_0.5	21/09/2021	SOIL				-	19	-	-	1.0	-		-	-
98633M_BH5_1.0	21/09/2021	SOIL			· · · · · · · · · · · · · · · · · · ·		23			14				

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

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33M: Hobart Tip Storag 72: Sedgw ck Claims Ma Robics Gully Waste Mar		is Road, South Hobert, Tasm	anio								тэр	ile A2: Su	mmary of	Analytic	al Results															р	rens	a 🙈
											M	etals				_										TR	tH					_
			nic	wr	llium	9	nium	bmium (hexavalent)	smium (111+V1)	alt	per		ganese	cury	ybdenum	tel	nium	er.			C10	(C6-C10 less BTEX)	PC16	(C10-C16 less NAPHTHALENE)	(C16-C34)	(C34-C40)	62.	- ci4	- C28	-636	10 - C36 (Sum of total)) - C40 (Sum of total)
			Arse	Bari	Ben	Bon	Cad	÷	Ğ	CC CC	S	Lea	Š	- Me	Ŵ	Nic	Sel	Silv	Ē	Zin	8	E	Ū	5	12	£	8	CIO	CIS	S	⊈ mg/kg	C CC
			mg/kg											mg/kg				mg/kg		mg/kg	20 mg/kg	mg/kg 20	50 mg/kg	mg/kg 50	mg/kg 100	mg/kg 100	20	mg/kg 20	mg/kg 50	mg/kg 50		100
EQL	The second second second second		2	10	2	10	0.4	1	5	5	5	5	5	0.1	5	5	2	2	10	5	20	20	50	50	100	100	1000	20	COLUMN TWO	-	1 10000	100
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	No 105 Fill Material - Leve					-				200	2000					60	10	10	50	200	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						65				1000	
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			20	300	2	Markell.	3	1	1	100	100	300	500	1	10		10		30	200												-
Field_ID	Sampled Date	Matrix_Type	20	300	2		3	1		100	100	300	500	1																		100
Field_ID 98633M_BH1_0.1	Sampled Date 21/09/2021	Matrix_Type SOIL	<2	- 300	-		<0.4	-	10	100	63	16	500	<0.1	<5	23	<2	<2	<10	39	<20	<20	<50	<50	<100	<100	<20	<20	<50	<50	<50	<100
		Matrix_Type				•			10 12		63 47	16 43	-	<0.1 <0.1	<5 <5	23 25	<2 <2	<2	<10 <10	39 75	<20	<20	<50	<50	280	<100	<20 <20	<20	170	140	310	280
98633M_BH1_0.1	21/09/2021	Matrix_Type SOIL SOIL SOIL	<2				<0.4 <0.4 <0.4		12 <5		63 47 56	16 43 85	-	<0.1 <0.1 <0.1	<5 <5 <5	23 25 12	<2 <2 <2	<2 <2 <2	<10 <10 <10	39 75 19	<20 <20	<20 <20	<50 <50	<50 <50	280 <100	<100 <100	<20 <20 <20	<20 <20	170 <50	140 <50	310 <50	280 <100
98633M_BH1_0.1 98633M_BH1_0.5	21/09/2021 21/09/2021	Matrix_Type SOIL SOIL	<2 2.4 <2 <2		•	•	<0.4 <0.4 <0.4 <0.4	-	12 <5 13		63 47 56 63	16 43 85 6	-	<0.1 <0.1 <0.1 <0.1	<5 <5 <5 <5	23 25 12 21	2 2 2 2 2	2 2 2 2 2	<10 <10 <10 <10	39 75 19 31	<20 <20 <20	<20 <20 <20	<50 <50 <50	<50 <50 <50	280 <100 <100	<100 <100 <100	<20 <20 <20 <20	<20 <20 <20	170 <50 <50	140 <50 <50	310 <50 <50	280 <100 <100
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1	21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL	<2 2.4 <2	0	-	•	<0.4 <0.4 <0.4 <0.4 <0.4 <0.4	-	12 <5 13 13		63 47 56 63 51	16 43 85 6 7.9	-	<0.1 <0.1 <0.1 <0.1 <0.1	<5 <5 <5 <5 <5 <5	23 25 12 21 19	<2 <2 <2 <2 <2 <2 <2	<2 <2 <2 <2 <2 <2 <2 <2	<10 <10 <10 <10 <10	39 75 19 31 33	<20 <20 <20 <20	<20 <20 <20 <20	<50 <50 <50 <50	<50 <50 <50 <50	280 <100 <100 <100	<100 <100 <100 <100	<20 <20 <20 <20 <20 <20	<20 <20 <20 <20	170 <50 <50 <50	140 <50 <50 <50	310 <50 <50 <50	280 <100 <100 <100
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1 98633M_BH2_0.5	21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL	<2 2.4 <2 <2	- 	· · ·	•	<0.4 <0.4 <0.4 <0.4	-	12 <5 13 13 9		63 47 56 63 51 47	16 43 85 6 7.9 43		<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<5 <5 <5 <5 <5 <5 <5	23 25 12 21 19 15	2 2 2 2 2 2 2 2 2 2 2 2 2 2	<2 <2 <2 <2 <2 <2 <2 <2 <2	<10 <10 <10 <10 <10 <10 <10	39 75 19 31 33 45	<20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20	<50 <50 <50 <50 <50	<50 <50 <50 <50 <50	280 <100 <100 <100 200	<100 <100 <100 <100 <100	<20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20	170 <50 <50 <50 120	140 <50 <50 <50 95	310 <50 <50 <50 215	280 <100 <100 <100 200
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1 98633M_BH2_0.5 98633M_BH2_1.0	21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL	<2 2.4 <2 <2 2.5	÷	· · ·		<0.4 <0.4 <0.4 <0.4 <0.4 <0.4	-	12 <5 13 13 9 17		63 47 56 63 51 47 39	16 43 85 6 7.9 43 68		<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<5 <5 <5 <5 <5 <5 <5 <5	23 25 12 21 19 15 18			<10 <10 <10 <10 <10 <10 <10 <10	39 75 19 31 33 45 68	<20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50	<50 <50 <50 <50 <50 <50	280 <100 <100 <100 200 <100	<100 <100 <100 <100 <100 <100	<20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20	170 <50 <50 <50 120 <50	140 <50 <50 95 <50	310 <50 <50 <50 215 <50	280 <100 <100 <100 200 <100
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1 98633M_BH2_0.5 98633M_BH2_1.0 98633M_BH3_0.1	21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL	<2 2.4 <2 <2 2.5 2.5 2.2		· · ·	· · ·	<0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4	-	12 <5 13 13 9 17 18		63 47 56 63 51 47 39 41	16 43 85 6 7.9 43 68 19		<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	23 25 12 21 19 15 18 18			<10 <10 <10 <10 <10 <10 <10 <10 <10	39 75 19 31 33 45 68 68 63	<20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50 <50 <50	<50 <50 <50 <50 <50 <50 <50	280 <100 <100 <100 200 <100 <100	<100 <100 <100 <100 <100 <100 <100	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20	170 <50 <50 120 <50 <50 <50	140 <50 <50 95 <50 <50 <50	310 <\$0 <\$0 215 <\$0 <\$0 <\$0	280 <100 <100 <100 200 <100 <100
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1 98633M_BH2_0.5 98633M_BH2_1.0 98633M_BH3_0.1 98633M_BH3_0.5	21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL	<2 2.4 <2 <2 2.5 2.5 2.2 4.3		-	· · ·	<0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4	-	12 <5 13 13 9 17		63 47 56 63 51 47 39	16 43 85 6 7.9 43 68 19 38		<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23 25 12 21 19 15 18 18 18 21			<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	39 75 19 31 33 45 68 63 63 75	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50 <50 <50 <50	<50 <50 <50 <50 <50 <50 <50 <50 <50	280 <100 <100 <100 200 <100 <100 <100	<100 <100 <100 <100 <100 <100 <100 <100	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	170 <\$0 <50 <50 120 <50 <50 <50 <50	140 <50 <50 95 <50 <50 <50 <50	310 <\$0 <\$0 <\$0 215 <\$0 <\$0 <\$0 <\$0	280 <100 <100 <100 200 <100 <100 <100
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1 98633M_BH2_0.5 98633M_BH2_1.0 98633M_BH2_1.0 98633M_BH3_0.5 98633M_BH3_0.1	21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	<2 2.4 <2 2.5 2.5 2.2 4.3 2.6	· · · · · · · · · · · · · · · · · · ·	-	· · ·	<0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4	· · · · · · · · · · · · · · · · · · ·	12 <5 13 13 9 17 18		63 47 56 63 51 47 39 41 51 <5	16 43 85 6 7.9 43 68 19		<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23 25 12 21 19 15 18 18 18 21 <5			<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	39 75 19 31 33 45 68 63 63 75 19	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50 <50 <50 <50	<50 <50 <50 <50 <50 <50 <50 <50 <50	280 <100 <100 <100 <100 <100 <100 <100	<100 <100 <100 <100 <100 <100 <100 <100	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	170 <50 <50 <50 120 <50 <50 <50 <50 <50	140 <50 <50 95 <50 <50 <50 <50 <50 <50	310 <50 <50 215 <50 <50 <50 <50 <50	280 <100 <100 200 <100 <100 <100 <100 <100
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1 98633M_BH2_0.5 98633M_BH2_0.5 98633M_BH3_0.1 98633M_BH3_0.5 98633M_BH4_0.5	21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	<2 2.4 <2 2.5 2.5 2.2 4.3 2.6 2.7		- - - - - - -	· · · · · · · · · · · · · · · · · · ·	<0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4	- - - - - - - - -	12 <5 13 13 9 17 18 14 14 15 <5		63 47 56 63 51 47 39 41 51	16 43 85 6 7.9 43 68 19 38 8.2 <5		<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23 25 12 21 19 15 18 18 18 21 <5 11			<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	39 75 19 31 33 45 68 63 63 75 19 10	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	280 <100 <100 <100 <100 <100 <100 <100 <1	<100 <100 <100 <100 <100 <100 <100 <100	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	170 <50 <50 <50 120 <50 <50 <50 <50 <50 <50	140 <50 <50 95 <50 <50 <50 <50 <50 <50 <50	310 <50 <50 215 <50 <50 <50 <50 <50 <50	280 <100 <100 200 <100 <100 <100 <100 <100
98633M_BH1_0.1 98633M_BH1_0.5 98633M_BH2_0.1 98633M_BH2_0.1 98633M_BH3_0.1 98633M_BH3_0.1 98633M_BH3_0.1 98633M_BH4_0.1 98633M_BH4_0.5	21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021 21/09/2021	Matrix_Type SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	<2 2.4 <2 2.5 2.5 2.2 4.3 2.6 2.7 3.1			· · · · · · · · · · · · · · · · · · ·	<0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4	- - - - - - - - - - -	12 <5 13 13 9 17 18 14 14 15		63 47 56 63 51 47 39 41 51 <5	16 43 85 6 7.9 43 68 19 38 8.2		<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23 25 12 21 19 15 18 18 18 21 <5			<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	39 75 19 31 33 45 68 63 63 75 19	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<50 <50 <50 <50 <50 <50 <50 <50 <50	<50 <50 <50 <50 <50 <50 <50 <50 <50	280 <100 <100 <100 <100 <100 <100 <100	<100 <100 <100 <100 <100 <100 <100 <100	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	<20 <20 <20 <20 <20 <20 <20 <20 <20 <20	170 <50 <50 <50 120 <50 <50 <50 <50 <50	140 <50 <50 95 <50 <50 <50 <50 <50 <50	310 <50 <50 215 <50 <50 <50 <50 <50	280 <100 <100 200 <100 <100 <100 <100 <100

15/	10	/2	0	2	1
Pa	ge	2	0	f	8

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prensa

Table A2: Summary of Analytical Results

. 26633MF Hobert Tip Storage Sheri SCA SQT2: Sedgwick Claims Management McRobies Gully Waste Management Centre, 30 f/cRobies Road. South Hobert, Tasmania

MAH PAH TEQ calc (Half) ine TEQ calc (Zero) ē ene TEQ (LOR) ene ene PAHs (Sum of total) ethylber 1,2,4-trimethylbe (m & p) fotal 1,2,3-0 ¥ 1,3,5-trime mg/kg 180 14 2 0.08 40 20 Information Bulletin No 105 Low Level Contaminated Soll - Level 2 5 100 100 Information Bulletin No 105 Fil. Materizi - Level 1

Field_ID	Sampled Date	Matrix_Type																															
98633M_BH1_0.1	21/09/2021	SOIL			<0.1	<0.1	•		<0.1	<0.2	<0.1	<0.3		<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	0.6	<0.5	1.2	<0.5
98633M_BH1_0.5	21/09/2021	SOIL			<0.1	<0.1	-		<0.1	<0.2	<0.1	<0.3	-	0.8	0.5	1.5	3.1	3.4	1.8	2.9	2.8	3	0.7	12	1.5	3	< 0.5	6.8	11	5.2	5.2	5.2	54.8
98633M_BH2_0.1	21/09/2021	SOIL	14		<0.1	<0.1	•	•	<0.1	<0.2	<0.1	<0.3	•	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	0.6	<0.5	1.2	<0.5
98633M_BH2_0.5	21/09/2021	SOIL	- (a -		<0.1	<0.1	-		<0.1	<0.2	<0.1	<0.3	-	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	0.6	<0.5	1.2	<0.5
98633M_BH2_1.0	21/09/2021	SOIL	•		<0.1	<0.1	-		<0.1	<0.2	< 0.1	<0.3		< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	0.6	<0.5	1.2	< 0.5
98633M_BH3_0.1	21/09/2021	SOIL		•	<0.1	<0.1	÷	•	<0.1	<0.2	<0.1	< 0.3		< 0.5	<0.5	0.5	2.1	3.6	1.5	1.7	2.4	2.1	<0.5	5.9	<0.5	2.2	<0.5	2	6.2	4.6	4.4	4.9	30.2
98633M_BH3_0.5	21/09/2021	SOIL			<0.1	<0.1	-		<0.1	<0.2	<0.1	<0.3		<0.5	<0.5	1.2	0.7	0.8	0.9	0.7	0.5	1.1	<0.5	1.7	<0.5	0.6	<0.5	0.9	2	1.4	1.1	1.6	11.1
98633M_BH4_0.1	21/09/2021	SOIL			<0.1	< 0.1			<0.1	< 0.2	<0.1	< 0.3	-	ت.0>	< 0.5	< 0.5	< 0.5	<c.5< th=""><th><0.5</th><th>< 0.5</th><th><0.5</th><th><0.5</th><th>< 0.5</th><th><0.5</th><th><0.5</th><th><0.5</th><th>< 0.5</th><th><0.5</th><th><0.5</th><th>0.6</th><th><0.5</th><th>1.2</th><th>< 0.5</th></c.5<>	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	0.6	<0.5	1.2	< 0.5
98633M_BH4_0.5	21/09/2021	SOIL			<0.1	< 0.1	-		<0.1	<0.2	<0.1	< 0.3		< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	0.6	<0.5	1.2	<0.5
98633M_BH4_1.0	21/09/2021	SOIL	-		<0.1	<0.1			<0.1	<0.2	<0.1	<0.3	-	<0.j	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	0.6	<0.5	1.2	< 0.5
98633M_BH5_0.1	21/09/2021	SOIL	<0.5	< 0.5	<0.1	<0.1	<0.5	<0.5	<0.1	< 0.2	<0.1	<0.3	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	≤0.5	<0.5	<0.5	<0.5	0.6	<0.5	1.2	<0.5
98633M_BH5_0.5	21/09/2021	SOIL		-	<0.1	< 0.1	-		<0.1	<0.2	<0.1	<0.3		<0.5	<0.5	< 0.5	1.1	1.7	0.8	0.9	0.9	0.9	<0.5	3.4	<0,5	0.7	<0.5	0.8	3.3	2.3	2.1	2.6	14.5
98633M_BH5_1.0	21/09/2021	SOIL	-	-	< 0.1	< 0.1	71		<0.1	<0.2	<0.1	< 0.3		< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<d.5< th=""><th><0.5</th><th><0.5</th><th><0.5</th><th><0.5</th><th><0.5</th><th><0.5</th><th>0.6</th><th><0.5</th><th>1.2</th><th><0.5</th></d.5<>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	1.2	<0.5

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Table A2: Summary of Analytical Results 98633M: Hobert Tip Storage Shed SCA prensa S0172: Sedgwick Claims Management McRubies Gully Waste Management Centre, 30 McRubies Road, South Hobart, Tasmania Halogenated Hydrocarbons Halogenated Benzenes Phenols (p HCB) 문 9 Non 문 Total (Total 2.4 mg/kg EQL Information Bulletin No 105 Low Level Contaminated Soil Level 2 25 Information Bulletin No 105 Fill Material - Level 1 Matrix Type Convolution Date -----

Field_ID	Sampled Date	Matrix_Type												_		-		1				_						
98633M_BH1_0.1	21/09/2021	SOIL	-		-			-	1		-	•		•	•	· ·		×	*		•				•		· ·	
98633M_BH1_0.5	21/09/2021	SOIL	-	• •	•	•	· · ·		. A .	-	•		•	•	•	· ·	-	,	•	•	•		•		•			
98633M_BH2_0.1	21/09/2021	SOIL	-	•				-		-	-	•	•	-	•	•	•			•	•						-	· ·
98633M_BH2_0.5	21/09/2021	SOIL			-				- 4				•	•	•	· ·		*).	÷.	•	· ·				•	•		· ·
98633M_BH2_1.0	21/09/2021	SOIL			-					-	-	•	•	•		· ·	-	•;	*,	+	•							
98633M_BH3_0.1	21/09/2021	SOIL	-	-					- e -	-	-	•	•	•	•	· ·		•		÷.,	•	•		•	•			· ·
98633M_BH3_0.5	21/09/2021	SOIL	-			-			•	-		•	•	-	•	· ·	· ·		•		•				•			
98633M_BH4_0.1	21/09/2021	SOIL	•	•	•		•	-		-	-	•	•	•	-	· ·	•	+	•	*	•	•				•	•	· ·
98633M_BH4_0.5	21/09/2021	SOIL	-		-	•		-		-	-	-	-		•	· ·			•	. *:	•				•	· ·		· ·
98633M_BH4_1.0	21/09/2021	SOIL			-							-	1.41	•	-	· ·		•	•	7		-			-			
98633M_BH5_0.1	21/09/2021	SOIL	<0.5	<5	<0.2	<1	<0.4	<0.5	<20	<1	×5	<0.5	<0.5	<1	<20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	< 0.5	<0.5	<0.5
98633M_BH5_0.5	21/09/2021	SOIL	-		- n -	-			•	-	-	•		•	•	•		•		•	•	•		•		· ·		· ·
98633M BH5 1.0	21/09/2021	SOIL	· ·	-									•	-	-	· ·	· ·		-		•	-						-

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Table A2: Summary of Analytical Results

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96633M: Hobart Yip Storage Shed SCA 90172: Sedgwick Claims Management McRobies Guily Wasre Management Contae, 30 McRobies Road, South Hobart, Tasmania

> EQL Informatio

	-		Halog	enated P	henols		_				-	Herb	icides			_	
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,6-dichlorophenol	2-chlorophenol	Pentachlorophenol	tetrachiorophenois	2,4,5-Trichlorophenoxy Acetic Acid (2,4,5-T)	2,4,5-TP (Silvex)	Hedonal (2,4-D)	2,4-Dichlorprop	4-{2,4-Dichlorophenoxy]butyric Acid (2,4-D8)	Dicamba	Dinoseb	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	, 2-Methyl-4-Chlorophenoxy Butanoic Acid (MCPB)	Mecoprop
	mg/kg	mg/kg	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg	mg/kg 10	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5	mg/kg 0.5
ation hip 105 Contorninations South Server 3	All Property lies	Concession of the local division of the loca	0.5	0.5	0.5	and the second second	10	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
tin No 105 Low Level Contaminated So'l - Level 2					-	-						a second		-			
n No 105 Fill Material - Level 1	-		-	-						1						P	

Field_ID	Sampled Date	Matrix_Type																	
98633M_BH1_0.1	21/09/2021	SOIL	-	-		-	-		-	•		-	-	1.41			- ÷.	•	
98633M_BH1_0.5	21/09/2021	SOIL,		C								•	•		•				- W.
98633M_BH2_0.1	21/09/2021	SOIL	-	-		-	-	-	-					- 189	-	-	÷	-	
98633M_BH2_0.5	21/09/2021	SOIL	-	-	1.2	-	-	-	-		•	•	-	- 345 -				· · .	- × 1
98633M_BH2_1.0	21/09/2021	SOIL	-	-		-	-		-			-					1.1		
98633M_BH3_0.1	21/09/2021	SOIL	· ·	-	-	-						-			-	-		-	
98633M_BH3_0.5	21/09/2021	SOIL										1					- 40	-	· · · ·
98633M_BH4_0.1	21/09/2021	SOIL		-					-		. •	-	•	•		-	- K.	- ¥1.	· .
98633M_BH4_0.5	21/09/2021	SOIL		-		-			-			÷ •			-			•	
98633M_BH4_1.0	21/09/2021	SOIL			· · ·	· · · · ·				· · · · · · · · · · · · · · · · · · ·	1.1				· · ·	•		•	
98633M_BH5_0.1	21/09/2021	SOIL	<1	<1	<0.5	<0.5	< 0.5	<*	<10	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
98633M_BH5_0.5	21/09/2021	SOIL	-		-						×.						- 4		- ¥ .
98633M_BH5_1.0	21/09/2021	SOIL						-	-	-				•	•				

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Table A2: Summary of Analytical Results

98833M: Hubart Tip Storage Shed SCA \$0172: Sedgwick Claims Management McRobles Gully Wasts Management Centre, 30 McRobles Road, Suuth Hobart, Tasman'a

> OCP Other organochiorine pesticides EPAVic ides EPAVic sulphate (Lindane) indrin aldehyde Aldrin + Dieldnin DOT+DDE+DDD idrin ketone ğ lor ıfan II fan I lfan : 4,4-DDE BHC -BHC Aldrin DDD DDT me/kg mg/kg mg/kg mg/kg mg/kg me/kg me/kg me/kg mg/kg Information Bulletin No 105 Low Level Contaminated Soil - Lovel 2 Information Bulletin No 105 Fill Material - Level 3

Field_ID	Sampled Date	Matrix_Type													-					_	_					
98633M_BH1_0.1	21/09/2021	SOIL		+			•			•	•	•	•	•					•			•				· ·
98633M_BH1_0.5	21/09/2021	SOIL			-	-	-		(47	•	-	1.4	•	•	•	•	· *			•					1.0	-
98633M_BH2_0.1	21/09/2021	SOIL		÷	-				*		•	•	•	•		•		•	•				-			
98633M_BH2_0.5	21/09/2021	SOIL	-		-	•		-	-	•	•		•	· ·	•		<u> </u>	•	•		•		-			· ·
98633M_BH2_1.0	21/09/2021	SOIL	-			-		- 14 - J				•	•		÷		- (4)		•	-			-	18		· ·
98633M_BH3_0.1	21/09/2021	SOIL	-		-			- 4	×	•	-	÷.	•	•	-	•	22	•	•	-	~		•			· ·
98633M_BH3_0.5	21/09/2021	SOIL	-	- e	-	-	-		100	-	-	÷.,	•	•		÷		•		-		-	-			· ·
98633M_BH4_0.1	21/09/2021	SOIL			•		•	· •		•	•	•	•	•		- 14		-		-		-	•	•		· ·
98633M_BH4_0.5	21/09/2021	SOIL			-	-			14	•	-	-	•	•	-	-		•	•	-	×	•				· ·
98633M_BH4_1.0	21/09/2021	SOIL		-	•	-	-	-		-	-		•	•	÷	· · · ·		-	•	-	*	-		*		
98633M_BH5_0.1	21/09/2021	SOIL	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	< 0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
98633M_BH5_0.5	21/09/2021	SOIL	-		-	-		-		-	•	-	-	•	-			•	•	•					· · ·	
98633M_BH5_1.0	21/09/2021	SOIL			-	-	-	- 14 - I		-			•	•		•		•	-	-		•	•	34.0	1.1	· ·

98633M: Hobart Tip Storage Shed SCA

EQL

Field_ID

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

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Table A2: Summary of Analytical Results

50172: Sedgwick Claims Management MeRobles Gully Waste Management Centre, 30 McRobles Road, South Hobart, Tasmania

OPP (Phasdrin) thyl ofos) achlarvinphos nethyl 5 8 5 Ê ate 0
 mg/kg
 <th Information Bulletin No 105 Low Level Contaminated Soil - Level 2 Information Bulletin No 105 Fill Material - Level 1 Sampled Date Matrix_Type

98633M_BH1_0.1	21/09/2021	SOIL	-							•		•	•			•					-	-		-	-	-		-			1.00	•
98633M_BH1_0.5	21/09/2021	SOIL					-	-					-	-							-	-		-		-	-	-			1 × 1	-
98633M_BH2_0.1	21/09/2021	SOIL	-									-			-						-			-		•		-			4. ¹	-
98633M_BH2_0.5	21/09/2021	SOIL	-			-	•	-	-			-			-		•		-		-			-		•		-			1.00	-
98633M_BH2_1.0	21/09/2021	SOIL					-			•		-	-	-	-							-	-			-	- ii	-		-	141	-
98633M_BH3_0.1	21/09/2021	SOIL	-			•		-		-		-	-	-	-				-	-	-	-	1.40	-	*	•		-			- 90	-
98633M_BH3_0.5	21/09/2021	SOIL	-	-		-	-		-	-	-	-	-	-	-				-	-	-	-	1.0	-	-	-		-		-	*	-
98633M_BH4_0.1	21/09/2021	SOIL				•				•					•	- × -	•	•	•	•	-		1.0			•			•		•	
98633M_BH4_0.5	21/09/2021	SOIL	-		-	-	-	-			-	-	-		-	-	-				-		-		÷.	-		-	•			•
98633M_BH4_1.0	21/09/2021	SOIL								•			-			×				-	-					-		-		-	- ×	-
98633M_BH5_0.1	21/09/2021	SOIL	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2
98633M_BH5_0.5	21/09/2021	SOIL	•					-				•				- ×,	•	•										-			-	
98633M_BH5_1.0	21/09/2021	SOIL	-	-			-	-		-	-	-	-		-	-	•	-			-	-		-	-			-	. •		-	

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Table A2: Summary of Analytical Results

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98633M: Hobart Tip Storage Shed SCA S0172: Sedgwick Claims Management McRobios Gully Waste Management Centre, 30 McRobios Road, Scuth Hobart, Tasmania

	Pesti	icides				P	СВ			
	Parathion	Pirimiphos-methy!	Arochior 1016	Arochlor 1221	Arochior 1232	Arochlor 1242	Arochior 1248	Arochior 1254	Arochlor 1260	, PCBs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
mation Butletin to 105 Contaminateded Soll - Level 8			-	1.00		Concerned in the	122	ALC: NO.		- 20
ation Bufletin No 105 Low Level Contaminated Soil - Level 2	_						-		-	20
on Bulletin No 105 Fill Material - Level 1					N ALL L	1	121	1 - 19	10.00	2

Field_ID	Sampled Date	Matrix_Type										
98633M_BH1_0.1	21/09/2021	SOIL						•	•			
98633M_BH1_0.5	21/09/2021	SOIL		-	- * I		1.1		•			-
98633M_BH2_0.1	21/09/2021	SOIL	-		-	-		-	•			•
98633M_BH2_0.5	21/09/2021	SOIL		•				•	-	- × -		1.4
98633M_BH2_1.0	21/09/2021	SOIL					-			N 1	•	
98633M_BH3_0.1	21/09/2021	SOIL			- X -		-					•
98633M BH3 0.5	21/09/2021	SOIL						•	•	5		
98633M BH4 0.1	21/09/2021	SOIL		-		-	-				•	
98633M BH4 0.5	21/09/2021	SOIL	•	-	- <u>-</u>							
98633M 8H4 1.0	21/09/2021	SOIL	•								•	•
98633M BH5 0.1	21/09/2021	SOIL	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	¢0.1
98633M BH5 0.5	21/09/2021	SOIL	-	-				•		- X		
98633M BH5 1.0	21/09/2021	SOIL	-				-			-		

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98633M: Hobart Tip Storage Shed SCA 50172: Sedgwick Claims Management McRobies Gully Waste Management Cartre, 30 McRobies Road, South Hobort, Tosmonia

Table A2: Summary of Analytical Results - Leached

PAH

Physiochemical properties

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		t til noo nitettinen bi olantinas	-							1911 - Harrison A.	1741								
		eH (Initial)	Acenaphthene	Acenaphthylonc	Anthraceng	Benz(a)anthracene	Senzo(a)pyrene	3enzo(b+j)/luoranthene	Senzo(k)fluoranthene	Benzo(g,h,i)parylene	Chrysene	Dibonz(a, h)ant hracene	luorantitene	fluorene	ndeno[1,2,3-c,d}pyrane	Vaphthalene	henanthrene	yrene	AHS {Sum of total}
		pH_Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL		0.1	0.01	0.01	0.01	0.01	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Information Bulletin	No 105 Contaminated Soil ASUP	- Level 3	1000	1000	1	and the second	0.0050	1		-	-			10-11-12-12-12-12-12-12-12-12-12-12-12-12-					
Information Bulletin	No 105 Low Level Contamination	d Soil ASLP - Level 2			· · · · · · · · · · · · · · · · · · ·	1	0.0005											In Haller	0.0005
Field_ID	Sampled Date																		
98633M_BH1_0.5	21/09/2021	7	0.012	0.0042	0.0083	< 0.00001	< 0.0005	< 0.00001	< 0.00001	< 0.03001	< 0.00001	< 0.00001	0.0051	0.011	< 0.00001	0.0018	0.04	0.0037	0.000417
98633M_BH3_0.1	21/09/2021	6.7	<0.01	< 0.00001	< 0.00001	<0.01	< 0.0005	< C.00005	< 0.00006	< 0.00007	< 0.00008	< 0.00009	<0.01	<0.01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.0005
98633M_BH3_0.5	21/09/2021	6.6	< 0.00001	< 0.00001	< 0.00002	< 0.00003	< 0.0005	< 0.00005	< 0.00006	< 0.00007	< 0.00008	< 0.00009	< 0.00010	< 0.00011	< 0.0001.2	< 0.00013	< 0.00014	< 0.00015	< 0.0005
98633M_BH5_0.5	21/09/2021	6.6	-	< 0.00001		< 0.00003	< 0.0005	< 0.00005	< 0.00006	< C.03007						< 0.00013	< 0.00014		

98633M: Hobart Tip Storage Shed SCA	S0172: Sedgwick Claims Management	IcRobies Gully Waste Management Centre, 30 McRobies Road, South Hobart, Tasmania
98633M: Hobart Tip !	S0172: Sedgwick Clair	McRobies Gully Wast

		SDG Field ID Sample	SDG Field ID Sampled Date/Time	23-Sep-21 98633M_BH2_0.1 21/09/2021	23-Sep-21 98633M_QC1 21/09/2021	RPD	23-Sep-21 98633M_BH2_0.1 21/09/2021	23-Sep-21 98633M_QC2 R 21/09/2021
Chem Ground	ChemName	Inite FOI						
Physiochemical properties	Moisture Content (dried @ 103°C)			7.0	6.2	12	7.0	
nical properties								
Metals	Arsenic		2 (Primary): 4 (Interlab)	<2.0	<2.0	2 Z	<2.0	<4.0 1
	Cadmium	mg/kg 0.4		<0.4	<0.4	NC	<0.4	<0.4
	Chromium (III+VI)	mg/kg 5 (Prim	5 (Primary): 1 (Interlab)	<5.0	<5.0	NC	<5.0	3.0 1
	Copper	mg/kg 5 (Prim	5 (Primary): 1 (Interlab)	56.0	22.0	87	56.0	51.0
	Lead		5 (Primary): 1 (Interlab)	85.0	<5.0	NC	85.0	12.0 1
	Mercury			<0.1	<0.1	NC	<0.1	<0.1
	Molybdenum	_	5 (Primary): 1 (Interlab)	<5.0	<5.0	NC	<5.0	<1.0 1
	Nickel		5 (Primary): 1 (Interlab)	12.0	<5.0	NC	12.0	11.0 1
	Selenium			<2.0	<2.0	NC	<2.0	<2.0
	Silver	<u> </u>	2 (Primary): 1 (Interlab)	<2.0	<2.0	NC	<2.0	<1.0
	Tin	_	10 (Primary): 1 (Interlab)	<10.0	<10.0	NC	<10.0	<1.0 1
	Zinc		5 (Primary): 1 (Interlab)	19.0	5.5	110	19.0	20.0
						-		
TRH	C6-C10	_	20 (Primary); 25 (Interlab)	<20.0	<20.0	SC	<20.0	<25.0
	F1 (C6-C10 less BTEX)	_	20 (Primary): 25 (Interlab)	<20.0	<20.0	S	<20.0	<25.0 1
	C10-C16	mg/kg 50		<50.0	<50.0	NC	<50.0	<50.0
	F2 (C10-C16 less NAPHTHALENE)	mg/kg 50		<50.0	<50.0	NC	<50.0	<50.0 1
	F3 (C16-C34)	mg/kg 100		<100.0	<100.0	NC	<100.0	<100.0 [
	F4 (C34-C40)	mg/kg 100		<100.0	<100.0	NC	<100.0	<100.0 1
	C6 - C9	_	20 (Primary); 25 (Interlab)	<20.0	<20.0	NC	<20.0	<25.0 1
	C10 - C14		20 (Primary): 50 (Interlab)	<20.0	<20.0	NC	<20.0	<50.0 1
	C15 - C28	_	50 (Primary): 100 (Interlab)	<50.0	<50.0	NC	<50.0	<100.0
	C29-C36	_	50 (Primary): 100 (Interlab)	<50.0	<50.0	NC	<50.0	<100.0
	+C10 - C36 (Sum of total)			<50.0	<50.0	NC	<50.0	<50.0 1
	C10 - C40 (Sum of total)		100 (Primary): 50 (Interlab)	<100.0	<100.0	NC	<100.0	<50.0
MAH	Benzene		0.1 (Primary): 0.2 (Interlab)	<0.1	<0.1	NC	<0.1	<0.2
	Ethylbenzene		0.1 (Primary): 1 (Interlab)	<0.1	<0.1	S	<0.1	<1.0
	Toluene		0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	S	<0.1	<0.5
	Xylene (m & p)		0.2 (Primary): 2 (Interlab)	<0.2	<0.2	NC	<0.2	<2.0
	Xylene (o)	mg/kg 0.1 (Pr	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	NC	<0.1	<1.0
	Xylene Total	mg/kg 0.3 (Pr	0.3 (Primary): 1 (Interlab)	<0.3	<0.3	S	<0.3	<1.0
	Accorditions		0.6 (Drimonsh 0.4 (Interlah)	205	202	UN	20.5	101
				30.5	307		301	- 01
	Acenaphtnylene			C.U>	2.02		C.U>	
	Anthracene			C.U>	9°0>	Z	G.U>	<0.1
	Benz(a)anthracene		0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	Z	<0.5	<0.1
	Benzo(a)pyrene		0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	Ŷ	<0.5	<0.05
	Benzo(b+j)fluoranthene			<0.5	<0.5	2	<0.5	
	Benzo(k)fluoranthene			<0.5	<0.5	2	<0.5	•
	Benzo(g,h,i)perylene	mg/kg 0.5 (PI		<0.5	<0.5	S	<0.5	<0.1
	Chrysene	mg/kg 0.5 (Pi	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.5	g	<0.5	<0.1
	Dihenz(a.h)anthracene	ma/ka 10.5 (P	ma/ka 0.5 (Primarv): 0.1 (Interlah)	<0.5	<0.5	C N	<0.5	<0.1

98633M: Hobart Tip Storage Shed SCA S0172: Sedgwick Claims Management McRobies Gully Waste Management Centre, 30 McRobies Road, South Hobart, Tasmania

> Table A5: Quality Control Sample Results Summary

SDG	23-Sep-21	23-Sr
Field ID	98633M_R1	98633
Sampled_Date/Time	21/09/2021	21/09
Sample Type	Rinsate	4

Chem Group	ChemName	Units	EQL	
MAH	Benzene	l/Brt	-	4
	Ethylbenzene	I/Brl	-	7
	Toluene	I/Brl	-	7
	Xylene (m & p)	l/gu	2	^2
	Xylene (o)	l/Brl	1	~
	Xylene Total	I/Brl	3	\$
Metals	Arsenic	I/Brl	-	7
	Cadmium	I/Brl	0.2	<0.2
	Chromium (III+VI)	l/grl	-	~
	Copper	I/Brl	1	7
	Lead	l/Brl	1	~
	Mercury	I/Brl	0.1	<0.1
	Molybdenum	I/Brt	5	\$
	Nickel	I/Brl	1	~
	Selenium	I/Brl	-1	7
	Silver	I/Brl	5	\$
	Tin	I/Bri	5	ç
	Zinc	1/Brt	5	~5
PAH	Acenaphthene	l/Brt	1	~
	Acenaphthylene	I/Brt	1	<
	Anthracene	I/Brt	1	<1
	Benz(a)anthracene	I/Brt	1	<1
	Benzo(a)pyrene	I/Brl	1	~
	Benzo(b+j)fluoranthene	I/Brt	1	<
	Benzo(k)fluoranthene	I/Brl	1	<1
	Benzo(g,h,i)perylene	I/Brt	1	~
	Chrysene	I/Brt	1	<1
	Dibenz(a,h)anthracene	I/Brt	1	<1
	Fluoranthene	I/Brt	1	<1
	Fluorene	I/Brl	1	~
	Indeno(1,2,3-c,d)pyrene	I/Brl	1	~
	Naphthalene	lug/l	1	~10

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Photographs

Item No. 7.1.5

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

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the	ist	COUNCIL CE RECORDER OF TITL	Tasmanian	
		Issued Pursuant to the L	and Titles Act 1980	Government
	Insert here any qualification to the approval under section 468(12), section 472 or section 477B of the Local Government Act 1962. Rule through any blank space.	The subdivision is approved THE COUNCIL C OF WATER ABOVI BASED ON STATE In witness whereof the COUNCIL has been hereunto affi	e common seal of the HOBABT CITY	
	COUNCILS REFERENCE	HEN ADDITIONAL D: parcels shown in this us additional sheet/s by us	Kizzen Kizzen (Illan . Commeil Clorke Director of Editional PULL	āvices.
	TO BE FILLED IN BY S Survey commenced 6 Survey finished 20 Error of Close 6 OFFICE EXAMINATION Plot Checked Mathematically Checked 6 Examined as to boundaries 6 Entered on Card 6	· 11 93 · 12 · 93 · 12 · 93	Surveyor's Certificate I, Retex Device Richmond of Miclowy Rist in Tasmania, registered surveyor, hereby certify that this plan: Requires the approval of the local authority, which has been obtained (or, does not require the approval of any local authority) Dated this day of Decentic 19.73. May Cauch per P.D RIGHTRO [Registered Surveyor Surveyors Reference 93139.	жĴ

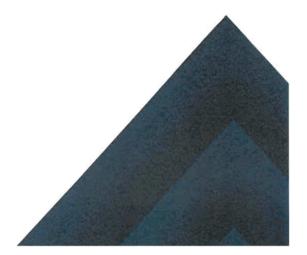
 Search Date: 05 Oct 2021
 Search Time: 11:50 AM
 Volume Number: 110533
 Revision Number: 01
 Page 1 of 1



S0172:RCS:98633M Hobart Tip Storage Shed SCA

prensa

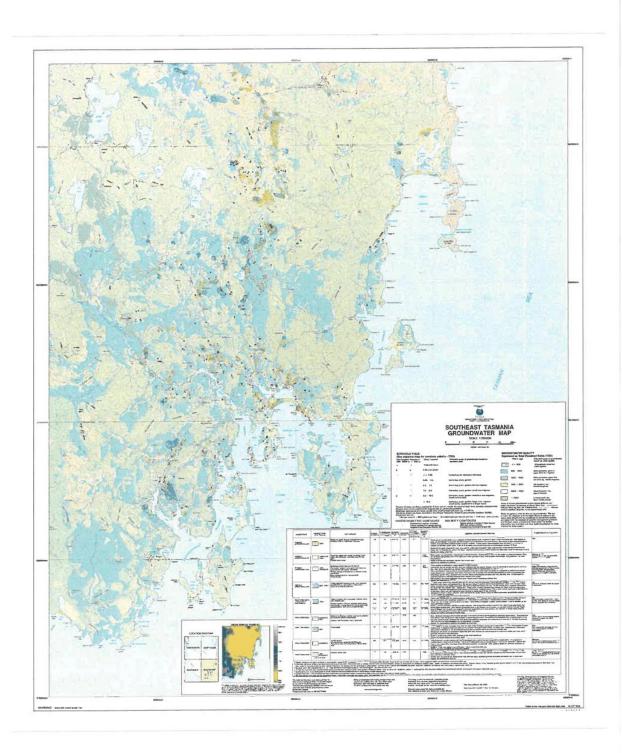
Appendix A: Property Report

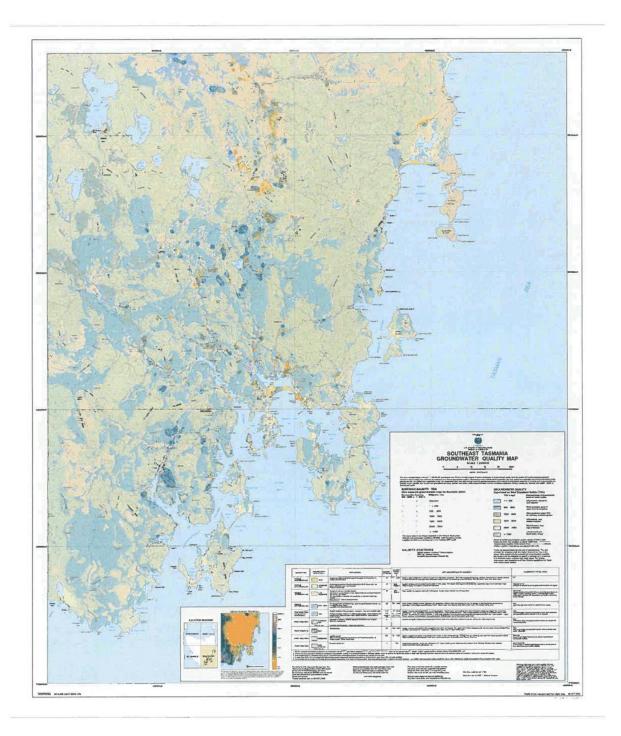




Appendix B: Hydrological Map

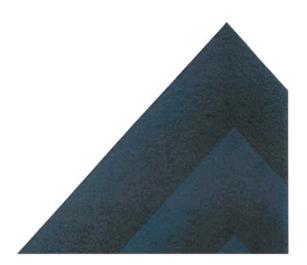






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Appendix C: Adopted Soil Investigation Levels, Screening Levels and Criteria





Environmental Value of Land – Maintenance of Ecosystems

NEPM 2013 – Ecological Investigation Levels / Ecological Screening Levels

The NEPM 2013 provides Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs) for the protection of terrestrial ecosystems for three (3) generic land use settings, as follows:

- Areas of ecological significance (i.e. national parks, state parks, wilderness areas and designated conservation areas);
- Urban residential and public open space; and
- Commercial and industrial land uses.

EILs/ESLs are the concentrations of contaminants above which further appropriate investigation and evaluation will be required. EILs are derived based on specific soil physicochemical properties and land use scenarios and generally apply to the top 2.0 m of soil profile. The NEPM 2013 provides a framework for deriving site-specific EILs for arsenic, dichlorodiphenyltrichloroethane (DDT), naphthalene, lead, copper, nickel and zinc using the National Environment Protection Council's (NEPC) *Ecological Investigation Level Calculation Spreadsheet*, 2010.

ESLs are applicable for petroleum hydrocarbons including various TRH fractions, BTEX and benzo(a)pyrene. Prensa have derived an appropriate ESL for the Site based on the soil texture identified during intrusive works (i.e. fine).

Adopted Guideline Values

For the purpose of this assessment, the following EILs and ESLs were be adopted, based on the commercial/industrial nature of the property in which the Investigation Area is located within:

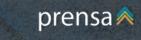
- NEPM 2013 EILs for the protection of terrestrial ecosystems in a commercial/industrial land use setting;
- NEPM 2013 ESLs for the protection of terrestrial ecosystems in a commercial/industrial land use setting; and
- CCME SQG for commercial/industrial, land use setting.

Environmental Value of Land – Human Health

NEPM 2013 - Health Investigation Levels / Health Screening Levels

The NEPM 2013 provides HILs have been developed for a broad range of inorganic and organic substances. The HILs are applicable for assessing human health risk via relevant pathways of exposure. The HILs are generic to all soil types and apply generally to a depth of 3.0 m below the surface for residential use. Site-specific conditions should determine the depth to which HILs apply for other land uses. Investigation level values are provided for four (4) generic land use settings as follows:

- HIL 'A': Residential with garden/accessible soil (home-grown produce <10% fruit and vegetable intake (no poultry), also includes childcare day care centres, preschools and primary schools;
- HIL 'B': Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments;
- HIL 'C': Public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. This does not include undeveloped public open space (such as urban bushland and reserves) which should be subject to a site-specific assessment where appropriate; and
- HIL 'D': Commercial/Industrial includes premises such as shops, offices, factories and industrial sites.



HSLs have been developed for petroleum compounds and fractions and are applicable to assessing human health risk via the vapour inhalation pathway. The HSLs depend on specific soil physicochemical properties, land use scenarios, and the characteristics of building structures. They apply to different soil types and depths extending from the ground surface to < 4 mBGL.

CRC CARE 2011 - Health Screening Levels

The CRC Care Technical Report No. 10, *Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater*, 2011 (CRC 2011) provides the framework for the conduct of petroleum vapour intrusion assessments resulting from contamination of soil and/or groundwater by petroleum hydrocarbons.

The NEPM 2013 HSLs for vapour intrusion were derived from this document. Prensa have also considered the HSLs prescribed in the CRC 2011 for assessing risks from petroleum hydrocarbons through the dermal contact exposure pathway. Based on the ongoing use of the Investigation Area and larger Site as sensitive land use and the protection of construction/maintenance workers performing intrusive works at the Site, the application of HSL 'D' were adopted for consideration of direct contact with soil.

NEPM 2013 - Management Limits

In addition to the application of the HSLs and ESLs, the NEPM 2013 also provides Management Limits for TRH fractions (F1 to F4), which are used to consider the physical and aesthetic risks of light nonaqueous phase liquid (LNAPL) resulting from effects of petroleum hydrocarbons. Application of the Management Limits requires consideration of site-specific factors, such as depth of building basements, services and/or groundwater. Specifically, the management limits are intended to be used as a screening value to assess the likelihood of concentrations of contaminants resulting in:

- Formation of observable light non-aqueous phase liquids (LNAPL);
- Fire and explosive hazards; and
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.

Therefore, the management limits are adopted, in part, to evaluate risks to human health.

Adopted Guideline Values

For the purpose of this assessment, the following HILs and HSLs are proposed to be adopted, based on the ongoing commercial/industrial land use:

- NEPM 2013 HIL 'D' to assess whether contamination may be present that may pose a health risk to human receptors based on the ongoing use of the Site and Investigation Area as a commercial/industrial land use; and
- NEPM 2013 HSL 'D' to assess whether petroleum hydrocarbon contamination may be present that may pose a risk to human receptor through the vapour inhalation exposure pathway for the ongoing use of the Site and Investigation Area as a commercial/industrial land use;
- CRC CARE HSL 'D' to assess whether petroleum hydrocarbon contamination may be present that
 may pose a risk to human receptor through the dermal contact exposure pathway in light of the
 ongoing use of the Site and Investigation Areas as a commercial/industrial land use; and
- NEPM 2013 Management Limits for a commercial/industrial land use setting to assess for the
 potential generation of LNAPL and the associated potential health effects.



Environmental Value of Land – Aesthetics

The NEPM 2013 states that 'aesthetic issues generally relate to the presence of low-concern or nonhazardous inert foreign material (refuse) in soil or fill resulting from human activity' and whilst 'there are no specific numeric aesthetic guidelines, however site assessment requires balanced consideration of the quantity, type and distribution of foreign material or odours in relation to the specific land use and its sensitivity' Therefore, this environmental value has therefore been primarily evaluated with field observations recorded during the works. Consideration has been given to the following condition of soil to assess risks to this beneficial use:

- Discolouration and staining;
- Offensive odours; and
- Presence of wastes (i.e. metals, plastics, building debris, etc.).

The NEPM 2013 Management Limits discussed above also provide a quantitative investigation level for evaluation the potential for LNAPL generation which may impact upon aesthetics. Therefore, the Management Limits have also been adopted, in part, to evaluate risks to this beneficial use.



Environmental Value – Buildings & Structures

Australian Standard 2159 *Piling – Design and Installation* (AS2159, 2009) was considered in assessing this Environmental Value. The standard provides the following screening tool to assess corrosion potential on concrete and steel piles.

Exposure Classification for Concrete Piles					
Sulfates (SO4) (ppm)		рH	Chloride (ppm)	Exposure Classification	
Soil	Groundwater		Groundwater	Condition A ⁽¹⁾	Condition B ⁽²⁾
<5000	<1,000	>5.5	<6,000	Mild	Non-Aggressive
5,000-10,000	1,000-3,000	4.5-5.5	6,000-12,000	Moderate	Mild
10,000-20,000	3,000-10,000	4-4.5	12,000-30,000	Severe	Moderate
>20,000	>10,000	<4	>30,000	Very Severe	Severe

⁽¹⁾ High permeability soils (e.g., sands and gravels) which are in groundwater

(2) Low permeability soils (e.g., silts and clays) or all soils above groundwater

Exposure Classification for Steel Piles					
pН	Chlorides (ppm)		Resistivity	Exposure Classification	
	Soil	Groundwater	(ohm.cm)	Condition A ⁽¹⁾	Condition B ⁽²⁾
>5.5	<5,000	<1,000	>5,000	Non-Aggressive	Non-Aggressive
4-5	5,000-20,000	1,000-10,000	2,000-5,000	Mild	Non-Aggressive
3-4	20,000-50,000	10,000-20,000	1,000-2,000	Moderate	Mild
<3	>50,000	>20,000	<1,000	Severe	Moderate

(1) High permeability soils (e.g., sands and gravels) which are in groundwater

(2) Low permeability soils (e.g., silts and clays) or all soils above groundwater

The NEPM 2013 Management Limits discussed above also provide a quantitative investigation level for evaluation the potential for LNAPL generation which may impact upon buried infrastructure. Therefore, the Management Limits have also been adopted, in part, to evaluate risks to this Environmental Value



Appendix D: EIL Derivation Spreadsheets



Inputs
Select contaminant from list below
Cr_III
Below needed to calculate fresh and aged
ACLs
Enter % clay (values from 0 to 100%)
Liner / City (Fundes Horr o to Took)
Below needed to calculate fresh and aged
ABCs
1000
Management in alter a unit opposition
Measured background concentration (mg/kg). Leave blank if no measured value
(mg/kg). Leave blank in no measured value
or for fresh ABCs only
Enter iron content (aqua regia method)
(values from 0 to 50%) to obtain estimate of
background concentration
2.7
or for aged ABCs only
or for aged ABCs only Enter State (or closest State)
or for aged ABCs only
or for aged ABCs only Enter State (or closest State)
or for aged ABCs only Enter State (or closest State) VIC

Outputs				
Land use	Cr III soil-specific EILs (mg contaminant/kg dry soil)			
	Fresh	Aged		
National parks and areas of high conservation value	60	70		
Urban residential and open public spaces	110	200		
Commercial and industrial	160	320		

Innute
Inputs
Select contaminant from list below
Zn
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
19
Enter soil pH (calcium chloride method) (values from 1 to 14)
7.5
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration 0.73
or for aged ABCs only
Enter State (or closest State)
VIC
Enter traffic volume (high or low)
high

Outputs			
Land use	Zn soil-sp	ecific EILs	
	(mg contaminant/kg dry sol		
	Fresh	Aged	
lational parks and areas of tigh conservation value	75	200	
Irban residential and open ublic spaces	270	720	
Commercial and industrial	420	1100	

Inputs	-
Select contaminant from list below	
Zn	
Below needed to calculate fresh and aged ACLs	
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)	
5.2	
Enter soil pH (calcium chloride method) (values from 1 to 14)	
6.6	7
Below needed to calculate fresh and aged ABCs	_
Measured background concentration (mg/kg). Leave blank if no measured value	
or for fresh ABCs only	
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate o background concentration	of
or for aged ABCs only	
Enter State (or closest State)	
VIC	
Enter traffic volume (high or low)	

high

Outputs			
Land use	Zn soil-specific EILs (mg contaminant/kg dry soil)		
	Fresh	Aged	
National parks and areas of high conservation value	45	110	
Urban residential and open public spaces	110	290	
Commercial and Industrial	170	430	

Inputs
Select contaminant from list below
NI
Below needed to calculate fresh and aged
ACLs
Enter cation exchange capacity (silver
thiourea method) (values from 0 to 100
cmolc/kg dwt)
chioloxy awy
19
Below needed to calculate fresh and aged
ABCs
1003
leasured background concentration
mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter Iron content (aqua regia method)
values from 0 to 50%) to obtain estimate of
background concentration
0.73
or for aged ABCs only
or for aged ABCs only
Enter State (or closest State)

Enter traffic volume (high or low) high

Outputs			
Land use	Ni soil-sp	Ni soil-specific EILs	
	(mg contaminant/kg dry soll)		
	Fresh	Aged	
National parks and areas of high conservation value	15	55	
Urban residential and open public spaces	85	270	
Commercial and industrial	170	450	

Inputs
Select contaminant from list below
Ni
Below needed to calculate fresh and aged
ACLs
Enter cation exchange capacity (silver
thiourea method) (values from 0 to 100
cmolc/kg dwt)
5.2
Below needed to calculate fresh and aged ABCs
Measured background concentration
(mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (agua regia method)
(values from 0 to 50%) to obtain estimate of
background concentration
2.7
or for aged ABCs only
or for aged ABCs only
or for aged ABCs only Enter State (or closest State)
Enter State (or closest State)
Enter State (or closest State) VIC
Enter State (or closest State)

Outputs				
Land use	Ni soil-specific ElLs (mg contaminant/kg dry soll)			
	Fresh	Aged		
National parks and areas of high conservation value	15	15		
Urban residential and open public spaces	25	45		
Commercial and industrial	35	70		

Inputs
Select contaminant from list below
Cu
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
19
Enter soil pH (calcium chloride method) (values from 1 to 14)
7.5
Enter organic carbon content (%OC) (values from 0 to 50%)
1.1
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regla method) (values from 0 to 50%) to obtain estimate of background concentration 0.73
or for aged ABCs only
Enter State (or closest State)
VIC
Enter traffic volume (high or low)
high

Outputs				
Land use	Cu soil-sp	ecific EILs		
	(mg contaminant	/kg dry soil)		
	Fresh	Aged		
National parks and areas of high conservation value	55	80		
Urban residential and open public spaces	110	220		
Commercial and industrial	170	310		

TÎ.

Inputs
Select contaminant from list below
Cu
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
5.2
Enter soll pH (calcium chloride method) (values from 1 to 14)
6.6
Enter organic carbon content (%OC) (values from 0 to 50%)
0.4
Below needed to calculate fresh and aged ABCs Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regla method) (values from 0 to 50%) to obtain estimate of background concentration 2.7
or for aged ABCs only
Enter State (or closest State)
VIC
Enter traffic volume (high or low)

high

Outputs					
Land use Cu soll-specific EILs					
	(mg contaminant	t/kg dry soll)			
	Fresh	Aged			
National parks and areas of high conservation value	35	40			
Urban residential and open public spaces	60	110			
Commercial and industrial	85	150			

Inputs
Select contaminant from list below
Cr III
Below needed to calculate fresh and aged ACLs
Enter % clay (values from 0 to 100%)
10
Below needed to calculate fresh and aged ABCs
Measured background concentration
(mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (agua regia method)
(values from 0 to 50%) to obtain estimate of
background concentration
0.73
or for aged ABCs only
Enter State (or closest State)
VIC
Enter traffic volume (high or low)
high

Outputs				
Land use	Cr III soil-s			
	Fresh	Aged		
National parks and areas of high conservation value	65	140		
Urban residential and open public spaces	170	410		
Commercial and industrial	280	670		

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Appendix E: Soil Borehole Logs



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BOREHOLE LOG 01

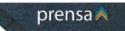


Site Lo	umber: ocation	98633N : 30 Mcl		Date of Sampling: 21/09/21 Rig/Machine: N/A Excavation Method: Hand Auger PID Calibration: 95	Depth of Hole: 1.0 Drawn By: MXP Approved By: MJN		
сомм	IENTS:						
Depth (m)	Method	Graphic Log		Subsurface Profile		Samples	DIA
			FILL: Clayey GRAVEL (0.0 Grey/ brown, soft, dry to sl significant gravels.	- 0.7 m) ghtly moist, medium plasticity, minor brick,	bitumen, glass fragments,		
- 0.1						BH01_0.1	0.2
-0.2							
0.3							
-0.4							
-0.5	HA					BH01_0.5	0.1
-0.6							
-0.7			NATURAL: Silty CLAY (0.7 Grey/ brown, soft to firm, s	' - 1.0 m) lightly moist with medium to high plasticity,	homogenous.		
-0.8							
-0.9							
-1			End hole at 1.0 m in natura	al.		BH01_1.0	0.2

Disclaimer This log is intended for environmental not geotechnical purposes.

and used by Eclas Ecdat ant an 07 Oct 2021

BOREHOLE LOG 02



Site Lo	umber: ocatior	98633N : 30 Mc		Date of Sampling: 21/09/21 Rig/Machine: N/A Excavation Method: Hand Auger PID Calibration: 95	Depth of Hole: 1.0 Drawn By: MXP Approved By: MJN		
COWM	ENTS	QC1 ar	nd QC2 collected at 0.1m				
Depth (m)	Method	Graphic Log		Subsurface Profile		Samples	DID
			FILL: Clayey GRAVEL (0.0 Grey/ brown, soft, slightly r gravels.	- 0.6 m) noist to moist, medium plasticity, minor brid	ck, bitumen, glass fragments,		
- 0.1						BH02_0.1	0.1
0.2							
0.3							
0.4							
0.5	на					BH02_0.5	0.1
0.6			NATURAL: Silty CLAY (0.6 Dark grey, soft to firm, sligh	- 1.0 m) ntly moist with medium to high plasticity, ho	omogenous.	-	
0.7							
0.8							
0.9							
		1////					

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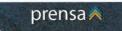
BOREHOLE LOG 03



Job Nu Site Lo	ocation	98633M : 30 McF		ethod: Hand Auger	Depth of Hole: 1.0 Drawn By: MXP Approved By: MJN		
сомм	ENTS:						
Depth (m)	Method	Graphic Log	5	Subsurface Profile		Samples	DIA
-0.1			FILL: Clayey GRAVEL (0.0 - 0.6 m) Dark grey, soft, dry to slightly moist, mediu	ım plasticity, minor brick, bitu	men, glass fragments, gravels.	BH03_0.1	0.1
- 0.2							
- 0.3							
- 0.5	на					BH03_0.5	0.1
-0.6			NATURAL: Silty CLAY (0.6 - 1.0 m) Dark grey, soft to firm, slightly moist with n	nedium to high plasticity, hom	rogenous.	-	
- 0.7							
0.8							
- 0.9						BH03_1.0	0.1
1			End hole at 1.0 m in natural.				

Disclaimer This log is intended for environmental not geotechnical purposes.

BOREHOLE LOG 04

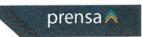


Job Nu Site Lo	ocation	98633M		Date of Sampling: 21/09/21 Rig/Machine: N/A Excavation Method: Hand Auger PID Calibration: 95	Depth of Hole: 1.0 Drawn By: MXP Approved By: MJN		
сомм	IENTS:						
Depth (m)	Method	Graphic Log		Subsurface Profile		Samples	DIA
			FILL: Clayey GRAVEL(0.0 Light brown, soft, dry to sli	 - 0.6 m) shtly moist, medium plasticity, minor brick, l 	bitumen, glass fragments.		
- 0.1						BH04_0.1	0.1
0.2							
0.3							
0.4							
0.5	НА					BH04_0.5	0.2
0.6			NATURAL: Silty CLAY (0.6 Dark grey, soft to firm, slig	i - 1.0 m) ntly moist with medium to high plasticity, ho	mogenous.	-	
0.7							
0.8							
0.9							
		VIIIA					

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BOREHOLE LOG 05



Job Ni Site Lo	ocation	98633N 1: 30 Mcl		Date of Sampling: 21/09/21 Rig/Machine: N/A Excavation Method: Hand Auger PID Calibration: 95	Depth of Hole: 1.0 Drawn By: MXP Approved By: MJN		
COMN	ENTS:						
Depth (m)	Method	Graphic Log		Subsurface Profile		Samples	DIA
			FILL: Clayey GRAVEL (0.0 Dark brown, soft, dry to slig significant gravels.	- 0.6 m) htly moist, medium plasticity, minor brick, b	vitumen, glass fragments,		
0.1						BH05_0.1	0.1
0.2							
0.3							
0.4							
0.5	HA					BH05_0.5	0.1
0.6			NATURAL: Silty CLAY (0.4 Light grey, soft, slightly mo	- 1.0 m) ist, medium to high plasticity.			
0.7							
0.8							
0.9							
1			End hole at 1.0 m in natura	l.		BH05_1.0	0.2

Disclaimer This log is intended for environmental not geotechnical purposes. produced by ESlog.ESdat.net on 07 Oct 2021

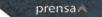
prensa

Appendix F: ProUCL Statistical Calculation Table/Conversion Calculations Table

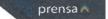




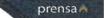
Site:			Storage Shed SCA	
Project:			Soil Contamination Assessment	0 /2021
Client:	Sedgwie	k Claims Management		09/2021 633M
Domain:		Fill	Marcan Control of Cont	0172
Contaminant:		Benzo(a)pyrene	Client No: 5	0172
	Result	Result Used for UCL		
Sample	mg/kg	mg/kg	Raw Statistics	10
98633M_BH1_0.1	<0.5	0.5	Number of Valid Observations Number of Distinct Observatio	1
98633M_BH1_0.5	3.4 <0.5	3.4	Minimum	<0.5
98633M_BH2_0.1	<0.5	0.5	Maximum	3.6
98633M_BH2_0.5 98633M_BH3_0.1	3.6	3.6	Mean	2.375
the state of the second s	0.8	0.8	Median	2.55
98633M_BH3_0.5 98633M_BH4_0.1	<0.5	0.5	SD	1.352
98633M_BH4_0.1	<0.5	0.5	Coefficient of Variation	0.569
98633M_BH5_0.1	<0.5	0.5	Skewness	-0.35
98633M_BH5_0.5	1.7	1.7	SREWHESS	0.55
98035IVI_BH5_0.5	1.7	1.7	Log-transformed Statistics	A KING
			Minimum of Log Data	-
			Maximum of Log Data	-
			Mean of log Data	-
			SD of log Data	-
			Distribution	
			Normal Distribution	Yes
			Lognormal Distribution	Yes
	· · · · · · ·		Recommended UCL	AND NO.
			UCL Method 95% BCA	Bootstrap UG
			UCL Result	1.917
	1		ESL	1.4
			(Commercial/Industrial)	1.4



Site: Project:			o Storage Shed SCA d Soil Contamination Assessment	
Client:	Sedgw	ick Claims Management		/2021
Domain:		Fill	Job No: 986	33M
Contaminant:		Benzo(a)pyrene	Client No: SO	172
	Result	Result Used for UCL		
Sample	mg/kg	mg/kg	Raw Statistics	
98633M_BH1_0.1	<0.5	0.5	Number of Valid Observations	10
98633M_BH1_0.5	3.4	3.4	Number of Distinct Observations	5
98633M_BH2_0.1	< 0.5	0.5	Minimum	< 0.5
98633M_BH2_0.5	<0.5	0.5	Maximum	3.6
98633M_BH3_0.1	3.6	3.6	Mean	2.375
98633M_BH3_0.5	0.8	0.8	Median	2.55
98633M_BH4_0.1	<0.5	0.5	SD	1.352
98633M_BH4_0.5	<0.5	0.5	Coefficient of Variation	0.569
98633M_BH5_0.1	<0.5	0.5	Skewness	-0.35
98633M_BH5_0.5	1.7	1.7		
			Log-transformed Statistics	
			Minimum of Log Data	-
	1		Maximum of Log Data	-
			Mean of log Data	-
			SD of log Data	-
			Distribution	
			Normal Distribution	Yes
			Lognormal Distribution	Yes
			Recommended UCL	10000
				ootstrap U
			UCL Result	1.917
			Fill Material	0.08
			Low Level Contaminated Soil	2
			Contaminated Soil	20
			_	
	1			



Site:		Hobert Tir Storage Char	p Storage Shed SCA d Soil Contamination Asses	sment
Project:				
Client:	Sedgwic	k Claims Management	Date: Job No:	21/09/2021
Domain:		Fill	the second se	98633M
Contaminant:		Copper	Client No:	S0172
	Result	Result Used for UCL		TINZ I A MA
Sample	mg/kg	mg/kg	Raw Statistics	
98633M_BH1_0.1	63	63	Number of Valid Obse	ervations 10
98633M_BH1_0.5	47	47	Number of Distinct Of	bservations 8
98633M_BH2_0.1	56	56	Minimum	39
98633M BH2 0.5	63	63	Maximum	110
98633M_BH3_0.1	47	47	Mean	56.9
98633M BH3 0.5	39	39	Median	51.5
98633M_BH4_0.1	41	41	SD	20.34
98633M_BH4_0.5	51	51	Coefficient of Variatio	on 0.357
98633M_BH5_0.1	52	52	Skewness	2.281
98633M_BH5_0.5	110	110		
			Log-transformed Stat	tistics
			Minimum of Log Data	3.664
			Maximum of Log Data	a 4.7
			Mean of log Data	3.997
			SD of log Data	0.294
			Distribution	A BULL MERSING
			Normal Distribution	No
			Lognormal Distributio	on Yes
			Recommended UCL	and a second second
				5% Adjusted Gamma UC
			UCL Result	71.38
			Fill Material	100
			Low Level Contaminat	
			Contaminated Soil	7500



Site:			Storage Shed SCA	
Project:			Soil Contamination Assessment	
Client:	Sedgwi	ck Claims Management	Date: 21/09/2	
Domain:		Fill	Job No: 98633	
Contaminant:	P.	AHs (Sum of total)	Client No: S017	2
AND AND AND AND	Result	Result Used for UCL		
Sample	mg/kg	mg/kg	Raw Statistics	
98633M_BH1_0.1	<0.5	0.5	Number of Valid Observations	10
98633M_BH1_0.5	54.8	54.8	Number of Distinct Observations	5
98633M_BH2_0.1	<0.5	0.5	Minimum	<0.5
98633M_BH2_0.5	<0.5	0.5	Maximum	54.8
98633M_BH3_0.1	30.2	30.2	Mean	27.65
98633M_BH3_0.5	11.1	11.1	Median	22.35
98633M_BH4_0.1	<0.5	0.5	SD	19.92
98633M_BH4_0.5	<0.5	0.5	Coefficient of Variation	0.72
98633M_BH5_0.1	<0.5	0.5	Skewness	1.115
98633M_BH5_0.5	14.5	14.5		
			Log-transformed Statistics	Salara and
			Minimum of Log Data	-
			Maximum of Log Data	-
			Mean of log Data	-
			SD of log Data	-
			Distribution	
			Normal Distribution	Yes
			Lognormal Distribution	Yes
			Recommended UCL	SALL SE
			UCL Method 95% KM	t) UCL
			UCL Result	22.88
			Fill Material	20
			Low Level Contaminated Soil	40
			Contaminated Soil	200

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

14/10/2021

Polycy	clic aromatic hydrocarbons Conversion Table
	For Direct Exposure Soil Cleanup Target Levels
Facility/Site Name: Location:	Hobart Tip Storage Shed SCA McRobies Gully Waste Management Centre 30 McRobies Road, South Hobart, Tasmania
Soil Sample No. Sample Date Depth (ft):	98633M_BH1_0.5 21/09/2021 Fill - 0.5 m
B(a)P(toxic equivalent). The TEQ (toxic equivale TEF values of each PAH congener. TEFs are ap	AH congener to that of B(a)P. The use of TEFs P to be converted to equipotent concentrations of ent) is calculated by adding the product of the concentration and individual oplied to all the PAH concentrations in the sample and

In the case where a result is reported as less than limit of reporting (LOR) the LOR should be used to calculate the TEQ for that congener. For example if a sample concentration for chrysene was reported as <0.0001 mg/L, after the TEF was applied (0.01 for chrysene) the TEQ would be 0.000001 mg/L. If the sum of the TEQs for a sample exceeds the B(a)P criterion, an additional calculation may be made whereby the LORs are divided by two and the TEF applie

the sum of these is then compared with the criteria for BaP in Table 2 of IB105

Contaminant	Concentration (mg/kg) reported	Concentration (mg/kg) - half the LOR utilised as acceptable by Information Bulletin 105	Toxic Equivalency Factor	Polycyclic aromatic hydrocarbons (total) Equivalent
Benzo(a)pyrene	0.0005	0 00025	1.00000	0.0002500
Benzo(a)anthracene	0.00001	0 00001	0.10000	0.0000005
Benzo(b)fluoranthene	0.00001	0.00001	0.10000	0.0000005
Benzo(k)fluoranthene	0.00001	0.00001	0.10000	0.0000005
Chrysene	0.00001	0.00001	0.01000	0.0000001
Benzo[ghi]perylene	0.00001	0 00001	0.01000	0.0000001
Dibenz(a,h)anthracene	0.00001	0.00001	1.00000	0.0000050
Indeno(1,2,3-cd)pyrene	0.00001	0.00001	0.10000	0.0000005
Anthracene	0.0083	0 00830	0.01000	0.0000830
Naphthalene	0.0018	0 00180	0.00100	0.0000018
Acenaphthylene	0.0042	0 00420	0.00100	0.0000042
Acenaphthene	0.012	0.01200	0.00100	0.0000120
Fluorene	0.011	0.01100	0.00100	0.0000110
Phenanthrene	0.04	0.04000	0.00100	0.0000400
Fluoranthene	0.0051	0.00510	0.00100	0.0000051
Pyrene	0.0037	0.00370	0.00100	0.0000037

Polycyclic aromatic hydrocarbons (total) Equivalents = 0.000418

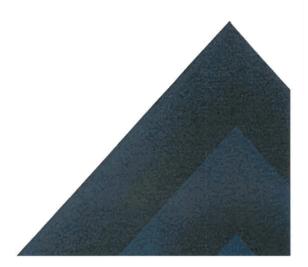
The concentration shown does not exceed the maximum (TCLP) leachable concentration outlined in Bulletin 105

PAH ConversionTable\B(a)p TEQs half

page 1 of 1

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Appendix G: Equipment Calibration Certificate



	hoCheck Tiger	r					airm	
Serial No. T-	-113964				A	ir-Me	et Scien 1300 13	tific Pty Ltd 7 067
Item	Test	Pa	55			Co	mments	
Battery	arge Condition	11						
	ses	1						
	pacity	1						
Re	charge OK?	77	-					
	eration	1.1						
Display Int	ensity	11						
Op	eration	1						
	gments)	4 - 2						
	ndition	1 2		1				
Se		i						
	eration	1.5		-				
Filt		1						
Flo								
Va	lves, Diaphragm	×						
CB Co	ndition	~						
Connectors Co	ndition	×						
Sensor PI		1		10.6 ev				
cueve ("	-							
· · · · ·	eper	2		Low	High		TWA	STEL
				50ppm	100ppm			
	attings	-		Leer Pitt				
JOILHAIC	ersion	•						
	peration	- *						
Download O	peration	~						
Other tests:								

Certificate of Calibration This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode Aspirated mode

Sensor	Serial no	Calibration gas and	Certified	Gas bottle No	Instrument Reading
PID Lamp	-	eoncentration 95ppm Isobutylene	NIST	ME846	95ppm
FID Lamp					

Annie Williams Calibrated by:

Calibration date:

Next calibration due: 14/03/2022

15/09/2021



Appendix H: Quality Assurance and Quality Control





Quality Assurance/Quality Control

Adopted Guidelines

The data quality assurance and control (QA/QC) procedures adopted by Prensa enables for an evaluation to be made regarding the useability of the data collected. Specifically, the use of the data in terms of its accuracy and reliability in forming the conclusions on the condition of the environment being investigated. The approach was generally based on guidance presented in the following documents:

- Standards Australia, Australian Standard, Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile Compounds, 2005 (AS 4482.1-2005)¹;
- Standards Australia and Standards New Zealand, Australian/New Zealand Standard, Water Quality

 Sampling Part 1: Guidance on the Design of Sampling Programs, Sampling Techniques and the
 Preservation and Handling of Samples, 1998 (AS/NZS 5667.1-1998)²;
- Standards Australia and Standards New Zealand, Australian/New Zealand Standard, Water Quality

 Sampling Part 11: Guidance on Sampling of Groundwaters, 1998 (AS/NZS 5667.11-1998)³;
- Victorian EPA Industrial Waste Resource Guidelines (IWRG701), Sampling and Analysis of Waters, Wastewaters, Soils and Waste, June 2009;
- NEPC, National Environmental Protection (Assessment of Site Contamination) Measure 1999, May 2013;
- USEPA, Guidance on Systematic Planning Using the Data Quality Objectives Process, February 2006; and
- USEPA, Guidance on Environmental Data Verification and Data Validation, January 2008.

¹ AS 4482.1-2005 is only applicable to soil assessment works.

² AS/NZS 5667.1-1998 is only applicable to water assessment works.

³ AS/NZS 5667.11-1998 is only applicable to groundwater assessment works.

Quality Assurance Procedure

The following quality assurance procedures and acceptability limits have been adopted to verify the quality of the data collected during completion of the assessment.

Data Assurance Procedure

Quality Assurance Process	Data Quality Indicators ⁽¹⁾	Description	Acceptability Limit(s)	Reference(s)
Sampling procedures	Precision, Comparability, Representativeness	Sampling conducted in accordance with Prensa work instructions and appropriate standards. Field forms used.	Adhere to standard procedures and forms.	AS/NZS 5667.11-1998 AS/NZS 5667.1-1998 EPAV, Publication 669 2000 Prensa work instructions HEPA NEMP 2018
Equipment calibration	Accuracy	Field equipment calibrated in accordance with the manufactures specifications.	Field equipment calibrated in accordance with the manufactures specifications.	EPAV, Publication 669 2000 Prensa work instructions
Analytical testing methods	Accuracy, Comparability	National Association of Testing Authorities (NATA) accredited methods to be used for analysis.	Primary and secondary laboratories are to use NATA accredited methods for analysis.	NEPM 2013 Prensa work instructions
Sample preservation, handling and holding times	Accuracy, Comparability, Representativeness	Samples appropriately preserved upon collection, stored, transported and analysed under recommended conditions within holding times.	Sample containers to be supplied by a NATA accredited laboratory. Appropriately preserved sampling containers to be used for the requested analysis. Samples stored and transported directly to the laboratory in chilled ice chests with completed chain of custody forms. Samples extracted and analysed within the recommended holding times specified by the NATA accredited laboratory.	AS/NZS 5667.1-1998 IWRG701 NEPM 2013 Prensa work instructions

S0172:RC5:98633M Hobart Tip Storage Shed SCA



		Data Assurance Procedure	ocedure	
Quality Assurance Process	Data Quality Indicators ⁽³⁾	Description	Acceptability Limit(s)	Reference(s)
Data management and reporting	Accuracy	Potential for transcription errors.	Entry of field data is to be peer reviewed during an internal technical review of report and appendices.	Prensa work instructions.
			Laboratory data requested in database format from the laboratory. Database files exported to create summary tables. At least 10% of data in the tables checked for inconsistencies.	
Data useability	Completeness	The sample volume and analytical methods	Limits of reporting less than the investigation	Prensa work instructions.
		enable for the limit of reporting for contaminants of concern to be less than the	levels/screening criteria adopted.	
		adopted investigation levels/criteria.		

(1) Precision - A measure of the variability (or reproducibility) of data, Comparability - The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event, Representativeness - The confidence (expressed qualitatively) that data is representative of each medium present on the site, Accuracy (bias) - A quantitative measure of the closeness of reported data to the true value and Completeness - A measure of the amount of usable data from a data collection activity.

Quality Control Sampling and Analysis

The following quality control sampling and analysis procedures and acceptability limits have been adopted to evaluate the validity of the analytical data.

Quality Control Sampling and Analysis Procedure

and in the second				
Quality Assurance Process	Data Quality Indicators ⁽¹⁾	Description	Acceptability Limit(s)	Reference(s)
Quality control sampling and analysis frequency	Precision	Field quality control samples collected in accordance with Prensa work instructions and appropriate standards.	Blind replicate sample ≥1 in 20 primary samples Split sample ≥1 in 20 primary samples Rinsate ≥1 per piece of equipment per day Field blank ≥1 per day Trip blank ≥1 per ice chest containing samples to be analysed for volatile compounds	AS/NZS 5667.1-1998 AS 4482.1-2005 Prensa work instructions.
Blind Replicate and split sample analysis	Precision, Accuracy	Blind replicate sample analysis used to quantitatively assess variability in the concentrations of analytes reported from samples collected from the same location. This provides insight into the reproducibility of the lab analysis. Split sample analysis used to assess variability in the analyte concentrations reported when a sample from the same location is analysed at a different laboratory. Used to assess the accuracy of the concentrations reported by the primary laboratory.	Analysed for the same contaminants of concern as the primary sample. RPD ⁴ - non limiting when concentrations are <10xLOR RPD<30% of mean concentration when 10- RPD<50% of mean concentration when 10- 20xLOR	AS 4482.1-2005 NATA laboratory procedures
Rinsate preparation and analysis	Accuracy, Comparability, Representativeness	Used to evaluate the potential for contamination on sampling equipment to have cross contaminated a sample. Samples prepared in the field following decontamination of sampling equipment.	Concentrations of analytes below the LOR.	AS 4482.1-2005 Prensa work instructions.
¹ RPD (relative percentage diffe RPD = $\frac{(X1 - X2)}{(X1 + X2)/2} \times 100\%$	lifferences are calculated by 0%	¹ RPD (relative percentage differences are calculated by dividing the difference between the primary sample and quality control sample by the average of the two, as shown below: RPD = $\frac{(X1 - X2)}{(X1 + X2)/2} \times 100\%$	lity control sample by the average of the two, as shown belo	ïm
Where X1 = Primary sample result	mple result			

X1 = Primary sample result X2 = Replicate sample result

S0172:RCS:98633M Hobart Tip Storage Shed SCA

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		Quality Control Sampling and Analysis Procedure	alysis Procedure	RELEVANCE I
Quality Assurance Process	Data Quality Indicators ⁽¹⁾	Description	Acceptability Limit(s)	Reference(s)
Field blank preparation and analysis	Accuracy, Comparability, Representativeness	Used to evaluate the potential for contamination of a sample during the collection procedure. Samples prepared in the field.	Concentrations of analytes below the LOR.	AS/NZS 5667.1-1998 Prensa work instructions
Trip blank preparation and analysis	Accuracy, Comparability, Representativeness	Used to evaluate cross contamination between samples in storage and transit as a product of handling. Samples prepared by the laboratory.	Concentrations of analytes below the LOR.	AS/NZS 5667.1-1998 AS 4482.1-2005 Prensa work instructions
Laboratory quality control analysis	Precision, Accuracy	Duplicates – A second piece of analysis from the same sample and reported in the same units as the result to show comparison	RPD limits specified for blind replicate and split sample analysis.	As per blind replicate and split sample analysis.
		Spike – Addition of a known concentration of an analyte to a sample and reported as percentage recovery.	Recovery typically between 70-130% or 30-130% for phenols. Dynamic limits are typically set by the laboratory.	NATA laboratory procedures
		Method Blanks – Performed on laboratory certified sands (solids) and deionised water (water).	Concentrations below the laboratory's LOR.	NATA laboratory procedures
		Laboratory Control Samples (LCS) – Reported as percent recovery.	Recovery typically between 70-130% or 30-130% for phenols. Dynamic limits are typically set by the laboratory.	NATA laboratory procedures
		Certified Reference Material (CRM) – Use an analyte of known concentration and reported as percent recovery.	Dynamic limits are typically set by the laboratory.	NATA laboratory procedures
		Surrogates - added to all samples where appropriate and reported as a percentage recovery.	Dynamic limits are typically set by the laboratory.	NATA laboratory procedures

S0172:RCS:98633M Hobart Tip Storage Shed SCA

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Appendix I: NATA Accredited Laboratory Report & Chain of Custody Documentation



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Certificate of Analysis

Environment Testing

Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122



NATA

NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, motical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:

Ruchurne Smith

Report Project name Project ID Received Date 826851-S McRobies Gully Waste Management Center 98633M Sep 23, 2021

Client Sample ID			98633M_BH1_ 0.1	98633M_BH1_ 0.5	98633M_BH2_ 0.1	98633M_BH2 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46939	M21-Se46940	M21-Se46941	M21-Se46942
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	170	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	140	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	310	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)N01	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	280	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	280	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	65	66	60	83
Polycyclic Aromatic Hydrocarbons					-	
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	5.2	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	5.2	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	5.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	1.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	3.1	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	3.4	< 0.5	< 0.5
Benzo(b&))fluoranthene ^{N07}	0.5	mg/kg	< 0.5	1.8	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	2.8	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	2.9	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	3.0	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5

Date Reported: Oct 07, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoría, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000 Page 1 of 31 Report Number: 826851-S

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Environment Testing

Client Sample ID			98633M_BH1_ 0.1	98633M_BH1_ 0.5	98633M_BH2_ 0.1	98633M_BH2 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46939	M21-Se46940	M21-Se46941	M21-Se46942
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	12	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	1.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	3.0	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	6.8	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	11	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	54.8	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	126	84	74	74
p-Terphenyl-d14 (surr.)	1	%	145	80	76	76
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.4	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	10	12	< 5	13
Copper	5	mg/kg	63	47	56	63
Lead	5	mg/kg	16	43	85	6.0
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	23	25	12	21
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	39	75	19	31
% Moisture	1	%	13	18	7.0	17

Client Sample ID			98633M_BH2_ 1.0	98633M_BH3_ 0.1	98633M_BH3_ 0.5	98633M_BH4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46943	M21-Se46944	M21-Se46945	M21-Se46946
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						1
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	120	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	95	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	215	< 50	< 50
Naphthalene ^{№02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	200	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	200	< 100	< 100

Date Reported: Oct 07, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000 Page 2 of 31 Report Number: 826851-S

Environment Testing

Client Sample ID			98633M_BH2_ 1.0	98633M_BH3_ 0.1 Soil	98633M_BH3_ 0.5 Soil	98633M_BH4 0.1 Soil
Sample Matrix			Soil			
Eurofins Sample No.		1	M21-Se46943	M21-Se46944	M21-Se46945	M21-Se46946
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	89	86	85	83
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	4.4	1.1	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	4.6	1.4	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	4.9	1.6	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	0.5	1.2	< 0.5
Benz (a)anthracene	0.5	mg/kg	< 0.5	2.1	0.7	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	3.6	0.8	< 0.5
Benzo(b&))fluoranthene ^{№7}	0.5	mg/kg	< 0.5	1.5	0.9	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	2.4	0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.7	0.7	< 0.5
Chrysene	0.5	mg/kg	< 0.5	2.1	1.1	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	5.9	1.7	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	2.2	0.6	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	2.0	0.9	< 0.5
Pyrene	0.5	mg/kg	< 0.5	6.2	2.0	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	30.2	11.1	< 0.5
2-Fluorobiphenyl (surr.)	1	%	74	93	67	110
p-Terphenyl-d14 (surr.)	1	%	76	91	121	147
Heavy Metals	-	-				
Arsenic	2	mg/kg	2.5	2.2	4.3	2.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	9.0	17	18
Copper	5	mg/kg	51	47	39	41
Iron	20	mg/kg	27000	-	-	-
Lead	5	mg/kg	7.9	43	68	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	19	15	18	< 2
Selenium	2	mg/kg	< 2	<2	<2	< 2
Silver	2	mg/kg	< 10	< 10	< 10	< 10
Tin	10	mg/kg	33	45	68	63
Zinc	5	mg/kg		40	00	03
% Moisture	1	%	21	21	22	21
% Clay	1	%	10		-	
Chloride	5	mg/kg	41	-	-	
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	58			

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Environment Testing

Client Sample ID			98633M_BH2_ 1.0	98633M_BH3_ 0.1	98633M_BH3_ 0.5	98633M_BH4_ 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46943	M21-Se46944	M21-Se46945	M21-Se46946
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	7.5			-
Sulphate (as SO4)	30	mg/kg	< 30	-	-	-
Total Organic Carbon	0.1	%	1.1	-	-	
Heavy Metals						
Iron (%)	0.01	%	2.7	-		-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meg/100g	19		-	-

Client Sample ID			98633M_BH4_ 0.5	98633M_BH4_ 1.0	98633M_BH5_ 0.1	98633M_BH5 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46947	M21-Se46948	M21-Se46949	M21-Se46950
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons				· · · · · ·		
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	61
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	60
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	121
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	98	90	-	84
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	2.3
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	2.6
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.1
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.7
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9

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Curofins Environment Testing

Client Sample ID			98633M_BH4 0.5	98633M_BH4_ 1.0	98633M_BH5_ 0.1 Soil	98633M_BH5 0.5 Soil
Sample Matrix			Soil	Soil		
Eurofins Sample No.			M21-Se46947	M21-Se46948	M21-Se46949	M21-Se46950
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.3
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	14.5
2-Fluorobiphenyl (surr.)	1	%	122	111	120	148
p-Terphenyl-d14 (surr.)	1	%	133	150	129	116
Heavy Metals						-
Arsenic	2	mg/kg	2.7	3.1	< 2	4.4
Barium	10	mg/kg	-	-	< 10	-
Beryllium	2	mg/kg	-	-	< 2	•
Boron	10	mg/kg	-	-	< 10	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	15	< 5	56
Cobalt	5	mg/kg	-		5.2	
Copper	5	mg/kg	51	< 5	52	110
Iron	20	mg/kg	-	-	7300	
Lead	5	mg/kg	38	8.2	< 5	54
Manganese	5	mg/kg	-	•	65	· · ·
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	21	< 5	11	18
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	75	19	10	90
% Moisture	1	%	28	20	9.2	19
% Clav	1	%	-		< 1	-
Chloride	5	mg/kg	-	-	< 5	
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	37	-
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	-	-	6.6	-
Sulphate (as SO4)	30	mg/kg	-	-	< 30	-
Total Organic Carbon	0.1	%	-	-	0.4	-
Chromium (hexavalent)	1	mg/kg	-	-	< 1	
Cyanide (total)	5	mg/kg	-	-	< 5	-
Fluoride (Total)	100	mg/kg	-	-	< 100	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	7.2	-
Heavy Metals		14681				
Iron (%)	0.01	%	-	-	0.73	•
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	5.2	-
Volatile Organics	0.00	1.104.1909				
Hexachlorobutadiene	0.5	mg/kg			< 0.5	

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Environment Testing

		98633M_BH4_ 0.5	98633M_BH4_ 1.0	98633M_BH5_ 0.1	98633M_BH5_ 0.5
		Soil	Soil	Soil	Soil
		M21-Se46947	M21-Se46948	M21-Se46949	M21-Se46950
		Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
LOR	Unit				
Lon	Unit				
0.5	mo/ka			< 0.5	
		-			
		· ·			
		-			
		-	-		-
		-	-		
					-
		· .	-		-
		-			-
0.5		-	-	< 0.5	-
0.5		-		< 0.5	-
		-	-	< 0.5	-
0.5	mg/kg	-		< 0.5	-
0.5		-	-	< 0.5	-
0.5		-			
0.5		-	-		-
0.5		-	-		-
0.5		-	-	< 0.5	-
0.5		-	-	< 0.5	-
0.5		-	-	< 0.5	-
0.5		-	-	< 0.5	-
0.1		-	-	< 0.1	-
0.5		-	-	< 0.5	-
0.5		-	-		
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	
0.5	mg/kg	-		< 0.5	
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg		-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	
0.5	mg/kg	-	-	< 0.5	
0.5	mg/kg	· ·	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	-
0.1	mg/kg		-	< 0.1	-
0.5	mg/kg	-	-	< 0.5	-
0.5	mg/kg	-	-	< 0.5	-
0.2	mg/kg			< 0.2	-
0.5	mg/kg	-	-	< 0.5	-
0.1	mg/kg	-	· · · · · · · · · · · · · · · · · · ·	< 0.1	· · ·
0.5	mg/kg			< 0.5	
0.5	mg/kg		-	< 0.5	-
0.1	mg/kg	-	-	< 0.1	-
	0.5 0.5	0.5 mg/kg 0.5 <td>Soil M21-Se46947 LOR Unit 0.5 mg/kg 0</td> <td>Soil Soil M21-Se46947 LOR Unit M21-Se46948 0.5 mg/kg - 0.5 mg/kg</td> <td>Soil Soil Soil M21-Se46947 N21-Se46947 Sep 21, 2021 Sep 21, 2021 LOR Unit - 0.5 mg/kg - <t< td=""></t<></td>	Soil M21-Se46947 LOR Unit 0.5 mg/kg 0	Soil Soil M21-Se46947 LOR Unit M21-Se46948 0.5 mg/kg - 0.5 mg/kg	Soil Soil Soil M21-Se46947 N21-Se46947 Sep 21, 2021 Sep 21, 2021 LOR Unit - 0.5 mg/kg - <t< td=""></t<>

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Environment Testing

Client Sample ID			98633M_BH4_ 0.5	98633M_BH4_ 1.0	98633M_BH5_ 0.1	98633M_BH5 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46947	M21-Se46948	M21-Se46949	M21-Se46950
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	
Vinvl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	54	-
Toluene-d8 (surr.)	1	%	-	-	57	
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	
a-HCH	0.05	mg/kg	-	-	< 0.05	
Aldrin	0.05	mg/kg	-	-	< 0.05	
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	•
Endosulfan I	0.05	mg/kg			< 0.05	
Endosulfan II	0.05	mg/kg	-	· · · ·	< 0.05	•
Endosulfan sulphate	0.05	mg/kg	-		< 0.05	-
Endrin	0.05	mg/kg		-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	•	-	< 0.05	-
Endrin ketone	0.05	mg/kg		-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	×	-	< 0.05	
Heptachlor	0.05	mg/kg		-	< 0.05	
Heptachlor epoxide	0.05	mg/kg	•	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	
Methoxychlor	0.05	mg/kg	· •	· ·	< 0.05	•
Toxaphene	0.5	mg/kg			< 0.5	
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	
DDT + DDE + DDD (Total)*	0.05	mg/kg	-		< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg		-	73	
DibutyIchlorendate (surr.)	1	%	-	-	137	
Tetrachloro-m-xylene (surr.)	1	%	-		137	
Organophosphorus Pesticides					< 0.2	-
Azinphos-methyl	0.2	mg/kg	-		< 0.2	
Bolstar	0.2	mg/kg			< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-		< 0.2	-
Chlorpyrifos	0.2	mg/kg			< 0.2	
Chlorpyrifos-methyl	0.2	mg/kg		-	< 2	-
Coumaphos	0.2	mg/kg			< 0.2	-
Demeton-S		mg/kg			< 0.2	-
Demeton-O	0.2	mg/kg mg/kg	-		< 0.2	-
Diazinon Dichlorvos	0.2	mg/kg mg/kg			< 0.2	-

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Environment Testing

Client Sample ID			98633M_BH4_ 0.5	98633M_BH4_ 1.0	98633M_BH5_ 0.1	98633M_BH5 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46947	M21-Se46948	M21-Se46949	M21-Se46950
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides	Lon	Unit				1
Dimethoate	0.2	mg/kg		-	< 0.2	
Disulfoton	0.2	mg/kg		-	< 0.2	
EPN	0.2	mg/kg			< 0.2	
Ethion	0.2	mg/kg		-	< 0.2	-
Ethoprop	0.2	mg/kg			< 0.2	
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	
Fenitrothion	0.2	mg/kg			< 0.2	
Fensulfothion	0.2	mg/kg			< 0.2	
Fenthion	0.2	mg/kg			< 0.2	
	0.2			-	< 0.2	-
Malathion		mg/kg			< 0.2	
Merphos Methyl perathian	0.2	mg/kg	-		< 0.2	
Methyl parathion	0.2	mg/kg			< 0.2	· ·
Mevinphos	0.2	mg/kg	-		< 0.2	
Monocrotophos		mg/kg	-		< 0.2	
Naled	0.2	mg/kg		· · · · ·		
Omethoate	2	mg/kg			< 2	
Phorate	0.2	mg/kg	-		< 0.2	
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	
Pyrazophos	0.2	mg/kg	· ·	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	•	< 0.2	
Tetrachlorvinphos	0.2	mg/kg	•	-	< 0.2	-
Tokuthion	0.2	mg/kg	•	•	< 0.2	· ·
Trichloronate	0.2	mg/kg	· · · · ·	· · ·	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	105	•
Polychlorinated Biphenyls		-				
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	· · ·		< 0.1	
Aroclor-1248	0.1	mg/kg			< 0.1	
Aroclor-1254	0.1	mg/kg	-		< 0.1	
Aroclor-1260	0.1	mg/kg		-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	
DibutyIchlorendate (surr.)	1	%		-	73	
Tetrachloro-m-xylene (surr.)	1	%	-	-	137	
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-		< 0.5	-
Dinitro-o-cresol	0.5	mg/kg		-	< 0.5	
Dinoseb	0.5	mg/kg			< 0.5	
MCPA	0.5	mg/kg	-		< 0.5	-
MCPA	0.5	mg/kg	-		< 0.5	
МСРВ	0.5	mg/kg	-		< 0.5	-
Mecoprop Warfarin (surr.)	0.5	mg/kg %	-	-	86	

Date Reported: Oct 07, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

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Environment Testing

Client Sample ID			98633M_BH4_ 0.5	98633M_BH4_ 1.0	98633M_BH5_ 0.1	98633M_BH5 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Se46947	M21-Se46948	M21-Se46949	M21-Se46950
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Phenols (Halogenated)	LOIX	Onic				
the second se	0.5	mg/kg			< 0.5	
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	
2.4-Dichlorophenol	1	mg/kg		-	< 1	
2.4.5-Trichlorophenol	1	mg/kg	-		<1	
2.4.6-Trichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.6-Dichlorophenol	1	mg/kg		-	< 1	-
4-Chloro-3-methylphenol	1				<1	-
Pentachlorophenol		mg/kg			< 10	-
Tetrachlorophenols - Total	10	mg/kg	-		< 1	
Total Halogenated Phenol*	1	mg/kg	-	-	×1	
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	•		< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Nitrophenol	1.0	mg/kg		-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	
2.4-Dinitrophenol	5	mg/kg		-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
Total cresols*	0.5	mg/kg	-	-	< 0.5	-
4-Nitropheno!	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	119	
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	

Client Sample ID			98633M_BH5_ 1.0	98633M_QC1
Sample Matrix			Soil	Soil
Eurofins Sample No.			M21-Se46951	M21-Se46952
Date Sampled			Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100

Date Reported: Oct 07, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000 Page 9 of 31 Report Number: 826851-S

Environment Testing

98633M_BH5_ 1.0	98633M_QC1
Soil	Soil
M21-Se46951	M21-Se46952
Sep 21, 2021	Sep 21, 2021
a < 0.1	< 0.1
g < 0.1	< 0.1
g < 0.1	< 0.1
g < 0.2	< 0.2
g < 0.1	< 0.1
q < 0.3	< 0.3
78	80
g < 0.5	< 0.5
g 0.6	0.6
g 1.2	1.2
g < 0.5	< 0.5
q < 0.5	< 0.5
g < 0.5	< 0.5
117	112
132	135
g 3.0	< 2
g < 0.4	< 0.4
g 14	< 5
g 5.0	22
g 7.5	< 5
g < 0.1	< 0.1
g < 5	< 5
g < 5	< 5
g <2	< 2
g <2	<2
g < 10	< 10
g 21	5.5
~	

Date Reported: Oct 07, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

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eurofins Environment Testing

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite 7 (metals 12)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40		0 07 0001	14 Days
BTEX	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Sep 27, 2021	14 Days
Polycyclic Aromatic Hydrocarbons	Melbourne	3ep 27, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water Metals IWRG 621 : Metals M12	Melbourne	Sep 27, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	000 21, 2021	,.
VIC EPA Metals : Metals M17	Melbourne	Sep 27, 2021	180 Days
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
Chloride	Melbourne	Sep 27, 2021	28 Days
- Method: LTM-INO-4090 Chloride by Discrete Analyser			
Sulphate (as SO4)	Melbourne	Sep 27, 2021	28 Days
- Method: LTM-INO-4110 Sulfate by Discrete Analyser			
Organophosphorus Pesticides	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Acid Herbicides	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
NEPM Screen for Soil Classification			00 D
Heavy Metals	Melbourne	Sep 27, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	D. I. I.	0.000	14 Dava
% Clay	Brisbane	Oct 05, 2021	14 Days
- Method: LTM-GEN-7040	Melbourne	Sep 30, 2021	7 Days
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Sep 30, 2021	7 Days
- Method: LTM-INO-4030 Conductivity	Melbourne	Sep 30, 2021	7 Days
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	000,202.	, bajo
Total Organic Carbon	Melbourne	Sep 28, 2021	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Cation Exchange Capacity	Melbourne	Sep 28, 2021	180 Days
 Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage 			
% Moisture	Melbourne	Sep 23, 2021	14 Days
- Method: LTM-GEN-7080 Moislure			
Vic EPA 1828.2 Table 3 (Solids)			
Chromium (hexavalent)	Melbourne	Sep 27, 2021	28 Days
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			
Cyanide (total)	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			00 D
Fluoride (Total)	Melbourne	Sep 28, 2021	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART B - ISE		0	7 Dava
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Sep 27, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	Sep 27, 2021	7 Days
Volatile Organics	Melbourne	56p 21, 2021	, Days
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS Volatile Organics	Melbourne	Sep 27, 2021	7 Days
Volatile Organics	Mabourne	oop any avail	
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			

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Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000 Page 11 of 31 Report Number: 826851-S

Curofins Environment Testing

Description	Testing Site	Extracted	Holding Time
Organochlorine Pesticides	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Sep 27, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Sep 27, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

Date Reported: Oct 07, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

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all: Env	web. www.euroins.com.au email: EnviroSales@eurofins.com	moo			6 Monterey Road Danderrong South VIC 3175 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254	5 16 M Lane Phoni NATA	Unit F3, Building F 16 Mars Road Lane Cove West N Phone : +61 2 990 NATA # 1261 Site	Unit F3, Building F 16 Mars Road Lane Core West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Site # 18217	2066 00 217	1.121 Smallwood Place Murarie GLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	llwood P. DLD 417 61 7 390 261 Site 261 Site	lace 72 72 4600 # 20794	Nev May PO PO P	Provided the second sec	Newcastle MayTeld East NSW 2304 MayTeld East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Sile # 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Phone: 1+61 8 223 4444 NATA # 2377 Site # 2370	Auckland 35 CYRNike Road Penrose, Auckland 1061 Phone: +64 9 526 45 51 IANZ # 1327	Christehurch 83 Detroil Drive Rolleston, Christchurch 7675 Phone : 0600 856 450 IANZ # 1290
Company Address:	Company Name: Address:	Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122	y Ltd VIC				Order No. Report #: Phone: Fax:	Order No.: Report #: Phone: Fax:		826851 9508 0100	1					Received: Due: Priority: Contact Name:	Sep 23, 2021 10:23 AM Oct 1, 2021 5 Day Ruchurne Smith	AM
Proje	Project Name: Project ID:	McRobies 98633M	Gully Waste Ma	McRobies Gully Waste Management Center 98633M	ter										_	Eurofins Analytical S	Eurofins Analytical Services Manager : Harry Bacalis	arry Bacalis
			Sample Detail			Chloride	Sulphate (as SO4) HOLD	TRH C6-C10	Organophosphorus Pesticides	Acid Herbicides	VIC EPA Metals : Metals M17	Moisture Set	NEPM Screen for Soil Classification	Vic EPA 1828.2 Table 3 (Solids)	Eurofins Suite 7 (metals 12)			
elbo	urne Laborato	TV - NATA #	Melbourne Laboratory - NATA # 1261 Site # 1254	54		×	×	×	×	×	×	×	×	×	×			
ydne	y Laboratory	- NATA # 120	Sydney Laboratory - NATA # 1261 Site # 18217						-									
risb	ane Laborator	Y - NATA # 1	Brisbane Laboratory - NATA # 1261 Site # 20794	4	A TOTAL OF A	-	+	+	_				×		1			
ayfic	eld Laboratory	- NATA # 12	Mayfield Laboratory - NATA # 1261 Site # 25079	0		+	+	+	-	_								
th th	Perth Laboratory - NATA # 2377 Site # 2370	IATA # 2377	Site # 2370			+	+	+	+				1					
No	Sample ID	Sample Date	te Sampling	Matrix	LAB ID	-	-	-	-	_								
0,0	98633M_BH1_ Sep 21, 2021 0.1	Sep 21, 202		Soil	M21-Se46939			-				×			×			
0,0	98633M_BH1_ 0.5	Sep 21, 2021	E	Soil	M21-Se46940							×			×			
0,0	98633M_BH2_ Sep 21, 2021 0.1	Sep 21, 202	5	Soil	M21-Se46941							×			×			
	98633M_BH2_ Sep 21, 2021 0.5	Sep 21, 202	E.	Soil	M21-Se46942							×			×			
	98633M_BH2_ 1.0	Sep 21, 2021	1	Soil	M21-Se46943	×		×				×	×		×			
	98633M BH3	Sep 21, 2021	2	Soil	M21-Se46944		\vdash		\vdash			×			×			

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The set of	web: ww	w.eurofins.com.au		t Testing	Melbourne 6 Monterey Road Dandenong South VIC 3175 Phone : 1-61 3 8564 5000 NATA # 1-251 Silo # 1-254		s Road	g F st NSW 2(Ishane 1 Smally rarrie QL one : +6	vood Pla .D 4172 1 7 3902	1600 4600	News 4/52 1 Mayfi PO B(industrial Drive eld East NSW 230 ox 60 Wickham 22			Christehut2h 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IAN7 # 1300
Green: Service: Service: Service: Vic EPA 1828.2 Table 3 (Solids) X	email: E	inviroSales@eurofins	s.com				# 1261 5	site # 182					NATA	\# 1261 Site # 250			
Eurofins Suite 7 (metals 12) ×	Con	npany Name: Iress:	Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn				Order Repor	.:	80 0	26851	8				Received: Due: Priority:	Sep 23, 2021 10:23 Oct 1, 2021 5 Dav	AM
Eurofins Suite 7 (metals 12) ×			VIC 3122				Fax:	:	5						Contact Name:	Ruchurne Smith	
Eurofins Suite 7 (metals 12) × <td< td=""><td>Pro</td><td>ject Name: ject ID:</td><td>McRobies Gully Waste N 98633M</td><td>/anagement Ce</td><td>inter</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>:</td><td></td></td<>	Pro	ject Name: ject ID:	McRobies Gully Waste N 98633M	/anagement Ce	inter											:	
Vic EPA 1828.2 Table 3 (Solids) ×															Eurofins Analytical S	ervices Manager : Ha	Irry Bacalis
44 X			Sample Detail		Chloride			TRH C6-C10	Organophosphorus Pesticides	Acid Herbicides		the second second second					
4 1	Melbo	ourne Laborato	ory - NATA # 1261 Site # 12	54	×	-		×	×	×		_	-	-			
A X	Sydn	ey Laboratory	- NATA # 1261 Site # 18217	2									-				
Soil M21-Se46945 I	Brisb	ane Laborator	y - NATA # 1261 Site # 207	94								Ŷ	×				
Soil M21-Se46945 N	Mayfi	ield Laboratory	r - NATA # 1261 Site # 2507	6													
Sep 21. 2021 Soil M21-Se46945 N<	Perth	Laboratory - h	NATA # 2377 Site # 2370								T		+				
0.1 0.1 <td>Exter</td> <td>nal Laboratory</td> <td>A TON SO THE SAME</td> <td></td> <td></td> <td>-</td> <td></td>	Exter	nal Laboratory	A TON SO THE SAME			-											
g8633M_BH3 Sep 21, 2021 Soil M21-Se46945 I		0.1					_	1				-	-				
96633M_BH4_ Sep 21, 2021 Soil MZ1-Se46946 N	~	98633M_BH3_ 0.5	Sep 21, 2021	Soil	M21-Se46945							×		×			
96633M_BH4_ Sep 21, 2021 Soil M21-Se46947 N		98633M_BH4_ 0.1	Sep 21, 2021	Soil	M21-Se46946							×		×			
98633M_BH4_ Sp 21, 2021 Soil M21-Se46948 N		98633M_BH4_ 0.5	Sep 21, 2021	Soil	M21-Se46947		-					×		×			
98633M_BH5_ Sep 21, 2021 Soil M21-Se46949 X		98633M_BH4_ 1.0		Soil	M21-Se46948							×		×			
96633M_BH5_Sep 21, 2021 Soil M21-Se46950 X × X		98633M_BH5_ 0.1	Sep 21, 2021	Soil		~	×		×	×	×			×			
		98633M_BH5_ 0.5	Sep 21, 2021	Soil	M21-Se46950	_						×		×			

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wab; www.eurofins.com.au email: EnviroSales@eurofins.com		Environment Testing	Melbourne Adonterey Road Dandenorg South VIC 3175 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254		Building F s Road ove West N : +61 2 9900 : +61 2 9900 t 1261 Site	sydriny Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Site # 18217	ø	Brisbane 1/21 Smal Murarrie C Phone : +{ NATA # 1;	Brisbane 1/21 Smallwood Place Muranie au 01 04172 Phone : +61 7 3902 46 NATA # 1261 Site # 22	Brisbane 1/21 Smallwood Place Murarife QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 20794		Newcastle 4/52 Industrial Drive Mayfield East NSW. PO Box 60 Wickhan Phone : +61 2 4968 NATA # 1261 Site #	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079	Ренћ 46-48 Ванкаја Road Weishpool WA 6105 Phone : +61 8 6253 4444 NATA # 2377 Site # 2370	Auckhand 35 O'Ronke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122	AIC C			Order No.: Report #: Phone: Fax:	:: #:::		826851 9508 0100	100					Received: Due: Priority: Contact Name:	Sep 23, 2021 10:23 AM Oct 1, 2021 5 Day Ruchurne Smith	AM
Project Name: Project ID:	McRobies Gully 98633M	McRobies Gully Waste Management Center 98633M	anter										_	Eurofins Analytical S	Eurofins Analytical Services Manager : Harry Bacalls	arry Bacalis
	Samp	Sample Detail	Chloride	HOLD	Sulphate (as SO4)	TRH C6-C10	Organophosphorus Pesticides	Acid Herbicides	VIC EPA Metals : Metals M17	Moisture Set	NEPM Screen for Soil Classification	Vic EPA 1828.2 Table 3 (Solids)	Eurofins Suite 7 (metals 12)			
elbourne Laborat	Melbourne Laboratory - NATA # 1261 Site # 1254	Site # 1254	^	×	×	×	×	×	×	×	×	×	×			
ydney Laboratory	Sydney Laboratory - NATA # 1261 Site # 18217	e # 18217				,										
risbane Laborato	Brisbane Laboratory - NATA # 1261 Site # 20794	ite # 20794		-							×					
layfield Laborator	Mayfield Laboratory - NATA # 1261 Site # 25079	te # 25079			-	_										
erth Laboratory -	Perth Laboratory - NATA # 2377 Site # 2370	# 2370														
External Laboratory	۷					_										
13 98633M_BH5_ 1.0	98633M_BH5_ Sep 21, 2021 1.0	Soil	M21-Se46951							×			×			
14 98633M QC1	Sep 21, 2021	Soil	M21-Se46952							×			×			
15 98633M R1	Sep 21, 2021	Water	M21-Se46953										×			
16 98633M TB1	Sep 21, 2021	Water	M21-Se46954			×			1							
17 98633M_BH1_ 1.0	Sep 21, 2021	Soil	M21-Se46955	×	_											
18 98633M_BH3_ 1.0	_ Sep 21, 2021	Soil	M21-Se46956	×												
Test Counts		4.1		2 2	2	-	1	-	1	14	2	-	14			

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🔅 eurofins

Environment Testing

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site

- Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
 2. All soll/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All soli/sediment/solid results are reported on a dry basis, unless otherwise stated.
 All blota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.

mg

ppb NTL

9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram ppm: Parts per million org/100mL: Organisms per 100 millilitres

L: milligrams per litre	
: Parts per billion	
J: Nephelometric Turbidity Units	

ug/L: micrograms per litre %: Percentage MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
coc	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs..

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent
 and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT* appears against that analyte
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Environment Testing

Quality Control Results

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank			at Rates		
Total Recoverable Hydrocarbons					
TRH C6-C9	mg/kg	< 20	20	Pass	
TRH C10-C14	mg/kg	< 20	20	Pass	
TRH C15-C28	mg/kg	< 50	50	Pass	
TRH C29-C36	mg/kg	< 50	50	Pass	
Naphthalene	mg/kg	< 0.5	0.5	Pass	
TRH C6-C10	mg/kg	< 20	20	Pass	
TRH >C10-C16	mg/kg	< 50	50	Pass	
TRH >C16-C34	mg/kg	< 100	100	Pass	
TRH >C34-C40	mg/kg	< 100	100	Pass	
Method Blank					
BTEX					
Benzene	mg/kg	< 0.1	0.1	Pass	
Toluene	mg/kg	< 0.1	0.1	Pass	
Ethylbenzene	mg/kg	< 0.1	0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2	0.2	Pass	
o-Xylene	mg/kg	< 0.1	0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3	0.3	Pass	
Method Blank	Ingrkg	- 0.0			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	mg/kg	< 0.5	0.5	Pass	
Acenaphthylene	mg/kg	< 0.5	0.5	Pass	
Anthracene	mg/kg	< 0.5	0.5	Pass	
Benz (a) anthracene	mg/kg	< 0.5	0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5	0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5	0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Chrysene	mg/kg	< 0.5	0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5	0.5	Pass	
Fluoranthene		< 0.5	0.5	Pass	
Fluorantinene	mg/kg	< 0.5	0.5	Pass	
	mg/kg mg/kg	< 0.5	0.5	Pass	
Indeno(1.2.3-cd)pyrene		< 0.5	0.5	Pass	
Naphthalene	mg/kg		0.5	Pass	
Phenanthrene	mg/kg	< 0.5	0.5	Pass	
Pyrene	mg/kg	< 0.5	0.5	Fass	
Method Blank					
Heavy Metals	an attent	10	2	Pass	
Arsenic	mg/kg	< 2	10	Pass	
Barium	mg/kg	< 10	2	Pass	
Beryllium	mg/kg	<2	10	Pass	
Boron	mg/kg	< 10	0.4	Pass	
Cadmium	mg/kg	< 0.4			
Chromium	mg/kg	< 5	5	Pass	
Cobalt	mg/kg	< 5	5	Pass	
Copper	mg/kg	< 5	5	Pass	
Iron	mg/kg	< 20	20	Pass	
Lead	mg/kg	< 5	5	Pass	
Manganese	mg/kg	< 5	5	Pass	
Mercury	mg/kg	< 0.1	0.1	Pass	
Molybdenum	mg/kg	< 5	5	Pass	

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Environment Testing

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Nickel	mg/kg	< 5	5	Pass	
Selenium	mg/kg	< 2	2	Pass	
Silver	mg/kg	< 2	2	Pass	
Tin	mg/kg	< 10	10	Pass	
Zinc	mg/kg	< 5	5	Pass	
Method Blank	an a Cariban I. S.		n de la ser y	1274	
Chloride	mg/kg	< 5	5	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10	10	Pass	
Sulphate (as SO4)	mg/kg	< 30	30	Pass	
Total Organic Carbon	%	< 0.1	0.1	Pass	
Cyanide (total)	mg/kg	< 5	5	Pass	
Fluoride (Total)	mg/kg	< 100	100	Pass	
Method Blank		States in the state		10-17-20	
Cation Exchange Capacity					
Cation Exchange Capacity	meq/100g	< 0.05	0.05	Pass	
Method Blank	1			- 1	
/olatile Organics				-	
Hexachlorobutadiene	mg/kg	< 0.5	0.5	Pass	
Method Blank	mang		0.0	1 455	
Volatile Organics			1		
1.1-Dichloroethane	malka	< 0.5	0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5	0.5	Pass	
	mg/kg				
1.1-Dichloroethene	mg/kg	< 0.5	0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5	0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5	0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5	0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5	0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5	0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5	0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5	0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5	0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5	0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5	0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5	0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5	0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5	0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5	0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5	0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5	0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5	0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5	0.5	Pass	
Allyl chloride	mg/kg	< 0.5	0.5	Pass	
Bromobenzene	mg/kg	< 0.5	0.5	Pass	
Bromochloromethane	mg/kg	< 0.5	0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5	0.5	Pass	
Bromoform	mg/kg	< 0.5	0.5	Pass	
Bromomethane	mg/kg	< 0.5	0.5	Pass	
Carbon disulfide	mg/kg	< 0.5	0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5	0.5	Pass	-
Chlorobenzene	mg/kg	< 0.5	0.5	Pass	
Chloroethane	mg/kg	< 0.5	0.5	Pass	
Chloroform	mg/kg	< 0.5	0.5	Pass	
			0.5	Pass	
Chloromethane cis-1.2-Dichloroethene	mg/kg mg/kg	< 0.5	0.5	Pass	

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Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
cis-1.3-Dichloropropene	mg/kg	< 0.5	0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5	0.5	Pass	
Dibromomethane	mg/kg	< 0.5	0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5	0.5	Pass	
lodomethane	mg/kg	< 0.5	0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5	0.5	Pass	
Methylene Chloride	mg/kg	< 0.5	0.5	Pass	
Styrene	mg/kg	< 0.5	0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5	0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5	0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5	0.5	Pass	
Trichloroethene	mg/kg	< 0.5	0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5	0.5	Pass	
Vinvl chloride	mg/kg	< 0.5	0.5	Pass	
Method Blank					
Organochlorine Pesticides					
Chlordanes - Total	mg/kg	< 0.1	0.1	Pass	
4.4'-DDD	mg/kg	< 0.05	0.05	Pass	
4.4'-DDE	mg/kg	< 0.05	0.05	Pass	
4.4'-DDT	mg/kg	< 0.05	0.05	Pass	
a-HCH	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-HCH	mg/kg	< 0.05	0.05	Pass	
d-HCH	mg/kg	< 0.05	0.05	Pass	
Dieldrin	mg/kg	< 0.05	0.05	Pass	
Endosulfan I	mg/kg	< 0.05	0.05	Pass	
Endosulfan II	mg/kg	< 0.05	0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05	0.05	Pass	
Endrin	mg/kg	< 0.05	0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05	0.05	Pass	
Endrin ketone	mg/kg	< 0.05	0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05	0.05	Pass	
Heptachlor	mg/kg	< 0.05	0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05	0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05	0.05	Pass	
Methoxychlor	mg/kg	< 0.05	0.05	Pass	
Toxaphene	mg/kg	< 0.5	0.5	Pass	
Method Blank					
Organophosphorus Pesticides					
Azin phos-methyl	mg/kg	< 0.2	0.2	Pass	
Bolstar	mg/kg	< 0.2	0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2	0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2	0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2	0.2	Pass	
Coumaphos	mg/kg	< 2	2	Pass	
Demeton-S	mg/kg	< 0.2	0.2	Pass	
Demeton-O	mg/kg	< 0.2	0.2	Pass	
Diazinon	mg/kg	< 0.2	0.2	Pass	
Dichlorvos	mg/kg	< 0.2	0.2	Pass	
Dimethoate	mg/kg	< 0.2	0.2	Pass	
Disulfoton	mg/kg	< 0.2	0.2	Pass	
EPN	mg/kg	< 0.2	0.2	Pass	
Ethion	mg/kg	< 0.2	0.2	Pass	
Ethoprop	mg/kg	< 0.2	0.2	Pass	

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Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Ethyl parathion	mg/kg	< 0.2	0.2	Pass	
Fenitrothion	mg/kg	< 0.2	0.2	Pass	
Fensulfothion	mg/kg	< 0.2	0.2	Pass	
Fenthion	mg/kg	< 0.2	0.2	Pass	
Malathion	mg/kg	< 0.2	0.2	Pass	· · · · ·
Merphos	mg/kg	< 0.2	0.2	Pass	
Methyl parathion	mg/kg	< 0.2	0.2	Pass	
Mevinphos	mg/kg	< 0.2	0.2	Pass	
Monocratophos	mg/kg	< 2	2	Pass	
Naled	mg/kg	< 0.2	0.2	Pass	
Omethoate	mg/kg	< 2	2	Pass	
Phorate	mg/kg	< 0.2	0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2	0.2	Pass	
Pyrazophos	mg/kg	< 0.2	0.2	Pass	
Ronnel	mg/kg	< 0.2	0.2	Pass	
Terbufos	mg/kg	< 0.2	0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2	0.2	Pass	
Tokuthion	mg/kg	< 0.2	0.2	Pass	
Trichloronate	mg/kg	< 0.2	0.2	Pass	
Method Blank				n Ta	
Polychlorinated Biphenyls					
Aroclor-1016	mg/kg	< 0.1	0.1	Pass	
Aroclor-1221	mg/kg	< 0.1	0.1	Pass	
Aroclor-1232	mg/kg	< 0.1	0.1	Pass	
Aroclor-1242	mg/kg	< 0.1	0.1	Pass	
Aroclor-1248	mg/kg	< 0.1	0.1	Pass	
Aroclor-1254	mg/kg	< 0.1	0.1	Pass	
Aroclor-1260	mg/kg	< 0.1	0.1	Pass	
Total PCB*	mg/kg	< 0.1	0.1	Pass	
Method Blank	1		The second second	Y	
Acid Herbicides				1	
2.4-D	mg/kg	< 0.5	0.5	Pass	
2.4-DB	mg/kg	< 0.5	0.5	Pass	
2.4.5-T	mg/kg	< 0.5	0.5	Pass	
2.4.5-TP	mg/kg	< 0.5	0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5	0.5	Pass	
Dicamba	mg/kg	< 0.5	0.5	Pass	
Dichlorprop	mg/kg	< 0.5	0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5	0.5	Pass	
Dinoseb	mg/kg	< 0.5	0.5	Pass	
MCPA	mg/kg	< 0.5	0.5	Pass	
MCPB	mg/kg	< 0.5	0.5	Pass	
Mecoprop	mg/kg	< 0.5	0.5	Pass	
Method Blank	1 119/19			1	
Phenols (Halogenated)					
2-Chlorophenol	mg/kg	< 0.5	0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5	0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	<1	1	Pass	
2.4.6-Trichlorophenol	mg/kg	<1	1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5	0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	<1	1	Pass	
Pentachlorophenol	mg/kg	<1	1	Pass	
Tetrachlorophenols - Total		< 10	10	Pass	
Method Blank	mg/kg	< 10	1 10	Fass	

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Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Phenois (non-Halogenated)					
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20	20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5	5	Pass	
2-Nitrophenol	mg/kg	<1	1.0	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5	0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5	5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2	0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4	0.4	Pass	
Total cresols*	mg/kg	< 0.5	0.5	Pass	
4-Nitrophenol	mg/kg	< 5	5	Pass	
Dinoseb	mg/kg	< 20	20	Pass	
Phenol	mg/kg	< 0.5	0.5	Pass	
LCS - % Recovery				211 201	
Total Recoverable Hydrocarbons					
TRH C6-C9	%	79	70-130	Pass	
TRH C10-C14	%	109	70-130	Pass	
Naphthalene	%	97	70-130	Pass	
TRH C6-C10	%	74	70-130	Pass	
TRH >C10-C16	%	117	70-130	Pass	
LCS - % Recovery				4.6.40	
BTEX			· · · · · · · · · · · · · · · · · · ·		
Benzene	%	86	70-130	Pass	
Toluene	%	83	70-130	Pass	
Ethylbenzene	%	77	70-130	Pass	
m&p-Xylenes	%	77	70-130	Pass	
Xylenes - Total*	%	79	70-130	Pass	
LCS - % Recovery				in the second	
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	%	116	70-130	Pass	
Acenaphthylene	%	91	70-130	Pass	
Anthracene	%	96	70-130	Pass	
Benz (a)anthracene	%	91	70-130	Pass	
Benzo(a)pyrene	%	102	70-130	Pass	
Benzo(b&i)fluoranthene	%	126	70-130	Pass	
Benzo(g.h.i)perylene	%	91	70-130	Pass	
Benzo(k)fluoranthene	%	128	70-130	Pass	
Chrysene	%	88	70-130	Pass	
Dibenz(a.h)anthracene	%	107	70-130	Pass	
Fluoranthene	%	90	70-130	Pass	
Fluorene	%	118	70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	95	70-130	Pass	
Naphthalene	%	119	70-130	Pass	
Phenanthrene	%	88	70-130	Pass	
Pyrene	%	87	70-130	Pass	
LCS - % Recovery				245	
Heavy Metals					
Arsenic	%	85	80-120	Pass	
Barium	%	97	80-120	Pass	
Beryllium	%	108	80-120	Pass	
Boron	%	113	80-120	Pass	
Cadmium	%	103	80-120	Pass	
Chromium	%	90	80-120	Pass	
Cobalt	%	106	80-120	Pass	
Copper	%	94	80-120	Pass	

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Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Iron	%	92	80-120	Pass	
Lead	%	95	80-120	Pass	
Manganese	%	103	80-120	Pass	
Mercury	%	119	80-120	Pass	
Molybdenum	%	87	80-120	Pass	
Nickel	%	90	80-120	Pass	
Selenium	%	85	80-120	Pass	
Silver	%	103	80-120	Pass	
Tin	%	83	80-120	Pass	
Zinc	%	86	80-120	Pass	
LCS - % Recovery		2월 20년 11월			
Chloride	%	116	70-130	Pass	
Sulphate (as SO4)	%	104	70-130	Pass	
Total Organic Carbon	%	107	70-130	Pass	
Chromium (hexavalent)	%	98	70-130	Pass	
Cyanide (total)	%	124	70-130	Pass	
Fluoride (Total)	%	98	70-130	Pass	
CS - % Recovery					
Volatile Organics					
1.1-Dichloroethene	%	112	70-130	Pass	
1.1.1-Trichloroethane	%	75	70-130	Pass	
1.2-Dichlorobenzene	%	89	70-130	Pass	
1.2-Dichloroethane	%	103	70-130	Pass	
Benzene	%	76	70-130	Pass	
Ethylbenzene	%	88	70-130	Pass	
m&p-Xylenes	%	90	70-130	Pass	
Toluene	%	71	70-130	Pass	
Trichloroethene	%	72	70-130	Pass	
Xylenes - Total*	%	89	70-130	Pass	
LCS - % Recovery	NOT THE PART	111			
Organochlorine Pesticides					
Chlordanes - Total	%	115	70-130	Pass	
4.4'-DDD	%	110	70-130	Pass	
4.4'-DDE	%	103	70-130	Pass	
4.4'-DDT	%	76	70-130	Pass	
a-HCH	%	94	70-130	Pass	
Aldrin	%	115	70-130	Pass	
ь-нсн	%	88	70-130	Pass	
d-HCH	%	97	70-130	Pass	
Dieldrin	%	90	70-130	Pass	
Endosulfan I	%	92	70-130	Pass	
Endosulfan II	%	104	70-130	Pass	
Endosulfan sulphate	%	78	70-130	Pass	
Endrin	%	88	70-130	Pass	
Endrin aldehyde	%	98	70-130	Pass	
Endrin ketone	%	88	70-130	Pass	
g-HCH (Lindane)	%	129	70-130	Pass	
Heptachlor	%	109	70-130	Pass	
Heptachlor epoxide	%	124	70-130	Pass	
Hexachlorobenzene	%	92	70-130	Pass	
Methoxychlor	%	82	70-130	Pass	
_CS - % Recovery	1 70				
Organophosphorus Pesticides					
Diganophosphorus Pesticides	%	103	70-130	Pass	

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Curofins Environment Testing

Test			Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Dimethoate			%	81	 70-130	Pass	
Ethion		_	%	109	 70-130	Pass	
Fenitrothion			%	105	70-130	Pass	
Methyl parathion			%	96	70-130	Pass	
Mevinphos			%	91	70-130	Pass	
LCS - % Recovery	a Cast law	0.001338	h.,				
Polychlorinated Biphenyls							
Aroclor-1260			%	83	70-130	Pass	
CS - % Recovery	264.15 A. 1.106	$2^{\circ} = 1^{\circ}$	11.12		NUCLE HILLED	2011	
Acid Herbicides						·	
2.4-D			%	78	70-130	Pass	
2.4-DB			%	81	70-130	Pass	
2.4.5-T			%	76	70-130	Pass	
2.4.5-TP			%	81	70-130	Pass	
Actril (loxynil)			%	75	 70-130	Pass	
Dicamba			%	82	70-130	Pass	
Dichlorprop			%	83	70-130	Pass	
Dinitro-o-cresol			%	79	70-130	Pass	
Dinoseb			%	82	70-130	Pass	
MCPA			%	81	70-130	Pass	
MCPB			%	79	70-130	Pass	
Mecoprop			%	78	70-130	Pass	
LCS - % Recovery		3-34 F	70			and the second second	
Phenois (Halogenated)				1			
2-Chlorophenol			%	81	25-140	Pass	
2.4-Dichlorophenol			%	49	25-140	Pass	
2.4.5-Trichlorophenol			%	102	25-140	Pass	
			%	76	25-140	Pass	
2.4.6-Trichlorophenol 2.6-Dichlorophenol			%	73	25-140	Pass	
			%	83	25-140	Pass	
4-Chloro-3-methylphenol			%	70	 25-140	Pass	
Pentachlorophenol			%	82	25-140	Pass	
Tetrachlorophenols - Total			70	02	20-140	1 455	
CS - % Recovery	and the second second		7-11-11-11-11-11-11-11-11-11-11-11-11-11	1	T		
Phenols (non-Halogenated)			%	38	25-140	Pass	
2-Cyclohexyl-4.6-dinitrophenol			%	53	25-140	Pass	
2-Methyl-4.6-dinitrophenol			%	99	25-140	Pass	
2-Nitrophenol			%	84	25-140	Pass	
2.4-Dimethylphenol			%	44	 25-140	Pass	
2.4-Dinitrophenol				70	25-140	Pass	
2-Methylphenol (o-Cresol)			%	96	25-140	Pass	
3&4-Methylphenol (m&p-Cresol)			%	88	25-140	Pass	
Total cresols*			%	55	 25-140	Pass	
4-Nitrophenol			%		 25-140	Pass	
Dinoseb			%	60	 25-140	Pass	
Phenol		-	%	82		Pass	Qualifyin
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Limits	Code
Spike - % Recovery	5. 5. 1 h. M. M	24.1	1	1.2			
Total Recoverable Hydrocarbons				Result 1	 		
TRH C6-C9	M21-Se46069	NCP	%	84	 70-130	Pass	
TRH C10-C14	M21-Se57841	NCP	%	113	 70-130	Pass	
Naphthalene	M21-Se42665	NCP	%	111	 70-130	Pass	
TRH C6-C10	M21-Se46069	NCP	%	78	 70-130	Pass	
TRH >C10-C16	M21-Se57841	NCP	%	115	70-130	Pass	

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BTEX							Code
				Result 1		-	
Benzene	M21-Se46069	NCP	%	88	70-130	Pass	
Toluene	M21-Se46069	NCP	%	80	70-130	Pass	
Ethylbenzene	M21-Se46069	NCP	%	71	70-130	Pass	
m&p-Xylenes	M21-Se46069	NCP	%	71	70-130	Pass	
o-Xylene	M21-Se46069	NCP	%	74	70-130	Pass	
Xylenes - Total*	M21-Se46069	NCP	%	72	70-130	Pass	
Spike - % Recovery	Star Star Star	121.78	P. B. R.			120	
Polycyclic Aromatic Hydrocart	oons			Result 1			
Acenaphthene	M21-Se48806	NCP	%	98	70-130	Pass	
Acenaphthylene	M21-Se48806	NCP	%	111	70-130	Pass	
Anthracene	M21-Se48806	NCP	%	101	70-130	Pass	
Benz(a)anthracene	M21-Se48806	NCP	%	90	70-130	Pass	
Benzo(a)pyrene	M21-Se48806	NCP	%	89	70-130	Pass	
Benzo(b&j)fluoranthene	M21-Se48806	NCP	%	113	70-130	Pass	
Benzo(g.h.i)perylene	M21-Se48806	NCP	%	108	70-130	Pass	
Benzo(k)fluoranthene	M21-Se48806	NCP	%	115	70-130	Pass	
Chrysene	M21-Se48806	NCP	%	120	70-130	Pass	
Dibenz(a.h)anthracene	M21-Se48806	NCP	%	103	70-130	Pass	
Fluoranthene	M21-Se48806	NCP	%	118	70-130	Pass	
Fluorene	M21-Se48806	NCP	%	102	70-130	Pass	
Indeno(1.2.3-cd)pyrene	M21-Se48806	NCP	%	91	70-130	Pass	
Naphthalene	M21-Se48806	NCP	%	98	70-130	Pass	
Phenanthrene	M21-Se48806	NCP	%	103	70-130	Pass	
Pyrene	M21-Se48806	NCP	%	109	70-130	Pass	
Spike - % Recovery	11121 0040000		10	100		1.000	
Heavy Metals				Result 1			
Arsenic	M21-Se45649	NCP	%	77	75-125	Pass	
Cadmium	M21-Se45649	NCP	%	100	75-125	Pass	<u> </u>
Chromium	M21-Se45649	NCP	%	86	75-125	Pass	
Copper	M21-Se45649	NCP	%	91	75-125	Pass	
Lead	M21-Se48808	NCP	%	80	75-125	Pass	
Mercury	M21-Se45649	NCP	%	111	75-125	Pass	
Molybdenum	M21-Se45649	NCP	%	83	75-125	Pass	
Nickel	M21-Se45649	NCP	%	80	75-125	Pass	
	M21-Se45649	NCP	%	73	75-125	Fail	Q08
Selenium	M21-Se45649	NCP	%	99	75-125	Pass	0200
Silver	M21-Se45649	NCP	%	81	75-125	Pass	
Tin							000
Zinc	M21-Se45649	NCP	%	70	75-125	Fail	Q08
Spike - % Recovery	1	1.0	0712107	D. NA			
Heavy Metals				Result 1	75.405		
Iron	M21-Se45649	NCP	%	109	75-125	Pass	
Spike - % Recovery							
Heavy Metals		· · · · · ·		Result 1			
Barium	M21-Se45649	NCP	%	82	75-125	Pass	
Beryllium	M21-Se45649	NCP	%	79	75-125	Pass	
Boron	M21-Se45649	NCP	%	78	75-125	Pass	
Cobalt	M21-Se45649	NCP	%	82	75-125	Pass	
Manganese	M21-Se48808	NCP	%	95	75-125	Pass	
Spike - % Recovery	BU MARY		Real Pr		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
				Result 1			
Fluoride (Total)	M21-Se48428	NCP	%	119	70-130	Pass	
							4

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Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
1.1-Dichloroethene	M21-Se54958	NCP	%	77	70-130	Pass	
1.1.1-Trichloroethane	M21-Se54958	NCP	%	71	70-130	Pass	
1.2-Dichlorobenzene	M21-Se54958	NCP	%	74	70-130	Pass	
1.2-Dichloroethane	M21-Se54958	NCP	%	95	70-130	Pass	
Trichloroethene	M21-Se54958	NCP	%	75	70-130	Pass	
Spike - % Recovery			No. 1			-0.1	
Organochlorine Pesticides				Result 1			
Chlordanes - Total	M21-Se37273	NCP	%	94	70-130	Pass	
4.4'-DDD	M21-Se37273	NCP	%	116	70-130	Pass	
4.4'-DDE	M21-Se37273	NCP	%	111	70-130	Pass	
4.4'-DDT	M21-Se37273	NCP	%	112	70-130	Pass	
a-HCH	M21-Se37273	NCP	%	78	70-130	Pass	
Aldrin	M21-Se37273	NCP	%	93	70-130	Pass	
b-HCH	M21-Se37273	NCP	%	126	70-130	Pass	
d-HCH	M21-Se37273	NCP	%	116	70-130	Pass	
Dieldrin	M21-Se37273	NCP	%	85	70-130	Pass	
Endosulfan I	M21-Se37273	NCP	%	100	70-130	Pass	
Endosulfan II	M21-Se37273	NCP	%	109	70-130	Pass	
Endosulfan sulphate	M21-Se37273	NCP	%	83	70-130	Pass	
Endrin	M21-Se37273	NCP	%	105	70-130	Pass	
	M21-Se37273	NCP	%	113	70-130	Pass	
Endrin aldehyde	M21-Se37273	NCP	%	116	70-130	Pass	
Endrin ketone	M21-Se37273	NCP	%	120	70-130	Pass	
g-HCH (Lindane)		NCP	%	91	70-130	Pass	
Heptachlor	M21-Se37273		-	77	70-130	Pass	
Heptachlor epoxide	M21-Se37273	NCP NCP	%	78	70-130	Pass	
Methoxychlor	M21-Se37273	NCP	%	18	10-130	Fass	
Spike - % Recovery				Denutit		T	
Polychlorinated Biphenyls				Result 1	70-130	Pass	
Aroclor-1016	B21-Se49235	NCP	%	95	70-130	Pass	-
Aroclor-1260	B21-Se49235	NCP	%	124	70-130	Pass	
Spike - % Recovery		And have	100 100			1	
Acid Herbicides				Result 1	70.400	Deve	
2.4-D	B21-Se30432	NCP	%	73	70-130	Pass	
Actril (loxynil)	B21-Se30432	NCP	%	97	70-130	Pass	
Dichlorprop	B21-Se30432	NCP	%	88	70-130	Pass	
MCPA	B21-Se30432	NCP	%	77	70-130	Pass	
Spike - % Recovery			107_1 Z 10			1	
Phenols (Halogenated)				Result 1			
2-Chlorophenol	M21-Se48806	NCP	%	125	30-130	Pass	
2.4-Dichlorophenol	M21-Se48806	NCP	%	95	30-130	Pass	
2.4.5-Trichlorophenol	M21-Se48891	NCP	%	93	30-130	Pass	
2.4.6-Trichlorophenol	M21-Se48806	NCP	%	102	30-130	Pass	-
2.6-Dichlorophenol	M21-Se48806	NCP	%	118	30-130	Pass	
4-Chloro-3-methylphenol	M21-Se48806	NCP	%	103	30-130	Pass	
Pentachlorophenol	M21-Se48806	NCP	%	113	30-130	Pass	
Tetrachlorophenols - Total	M21-Se48806	NCP	%	32	30-130	Pass	
Spike - % Recovery		122(3), 5		L-Mallan.	Desi Anteria di set	(221) () (
Phenols (non-Halogenated)				Result 1			
2-Cyclohexyl-4.6-dinitrophenol	M21-Se48806	NCP	%	68	30-130	Pass	
2-Methyl-4.6-dinitrophenol	M21-Se48806	NCP	%	100	30-130	Pass	
2-Nitrophenol	M21-Se48806	NCP	%	94	30-130	Pass	
2.4-Dimethylphenol	M21-Se48806	NCP	%	117	30-130	Pass	
2.4-Dinitrophenol	M21-Se48806	NCP	%	37	30-130	Pass	
2-Methylphenol (o-Cresol)	M21-Se48806	NCP	%	81	30-130	Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
3&4-Methylphenol (m&p-Cresol)	M21-Se48806	NCP	%	74			30-130	Pass	
Total cresols*	M21-Se48806	NCP	%	76			70-130	Pass	
4-Nitrophenol	M21-Se48806	NCP	%	125			30-130	Pass	
Dinoseb	M21-Se48806	NCP	%	95			30-130	Pass	
Phenol	M21-Se48806	NCP	%	104			30-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate								- 36	
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M21-Se57839	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M21-Se57839	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M21-Se57839	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M21-Se57839	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M21-Se57839	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M21-Se57839	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate			R 19					Peril 1	
Polycyclic Aromatic Hydrocarbor	15			Result 1	Result 2	RPD			
Acenaphthene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
	M21-Se48803	NCP		< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene		NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M21-Se48803		mg/kg			<1	30%		
Fluorene	M21-Se48803	NCP NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass Pass	
Indeno(1.2.3-cd)pyrene	M21-Se48803		mg/kg						
Naphthalene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate		Contraction of the local sector of the local s				and the second		1201	
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Se45649	NCP	mg/kg	5.4	5.3	1.0	30%	Pass	
Cadmium	M21-Se45649	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Se45649	NCP	mg/kg	21	21	2.0	30%	Pass	
Copper	M21-Se45649	NCP	mg/kg	71	73	2.0	30%	Pass	
Lead	M21-Se45649	NCP	mg/kg	390	400	2.0	30%	Pass	
Mercury	M21-Se45649	NCP	mg/kg	0.1	0.1	1.0	30%	Pass	
Molybdenum	M21-Se45649	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Se45649	NCP	mg/kg	27	27	1.0	30%	Pass	
Selenium	M21-Se45649	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Se45649	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Se45649	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Se45649	NCP	mg/kg	260	270	3.0	30%	Pass	
Duplicate				يح الم ال					
				Result 1	Result 2	RPD			
% Moisture	M21-Se46939	CP	%	13	9.7	28	30%	Pass	
Duplicate						19782			-
Total Recoverable Hydrocarbons		_		Result 1	Result 2	RPD			
TRH C6-C9	M21-Se46940	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	M21-Se46940	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
reprintatione	1121-0640340		119/19	-0.0	-0.0	*1	0070	1 000	

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		1212-126	S. 62 (*)			1441-11	
			Result 1	Result 2			
M21-Se46940	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
M21-Se46940	CP	mg/kg	< 0.1				Pass
M21-Se46940	CP	mg/kg	< 0.1	< 0.1		30%	Pass
M21-Se46940	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
M21-Se46940	CP	mg/kg	< 0.1	< 0.1	<1		Pass
M21-Se46940	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
	3. HE	122-0-				1	121.5.2
			Result 1	Result 2	RPD		
M21-Se45649	NCP	mg/kg	15000	15000	2.0	30%	Pass
		S					1
			Result 1	Result 2	RPD		
M04 6+62028	NCD	uS/om	120	110	0.0	30%	Pass
							Pass
M21-Se46551	NCP	70	14	14	1.1	30%	1 1 2 3 3
			Popult 1	Pocult 2	PPD		1
M01 Sc46040	CP	mag/100-				30%	Pass
WI21-5646943	CP	med/100g	19	10	5.0	3076	F 433
		and the second second	Posult 4	Recult 2	RPD	and the second	
N04 0-45640	NCD	malka				30%	Pass
		1					Pass
							Pass
							Pass
							Pass
WIZ1-5045049	INCE	mg/kg	100	100 1	1.0	0070	1 455
		1	Pocult 1	Result 2	RPD		
M21 So46040	CP	0/				30%	Pass
MZ1-5040949	CF	70	9.2		15	5070	1 455
M21-Se55623	NCP	pH Units	8.4	8.4	pass	30%	Pass
M21-Se47916	NCP	mg/kg	< 1	< 1	<1	30%	Pass
M21-Se48387	NCP	mg/kg	< 5	< 5	<1	30%	Pass
M21-Se47788	NCP	mg/kg	< 100	< 100	<1	30%	Pass
M21-Se58618	NCP	pH Units	9.1	9.1	pass	30%	Pass
							12 11 21
M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Recursion (E	1		1992		202	in select of	1
		1				0001	
							Pass
							Pass
							Pass
							Pass
							Pass
							Pass
							Pass
							Pass
							Pass
M21-Se56966	NCP	mg/kg	< 0.5 < 0.5	< 0.5	<1	30%	Pass
				< 0.5	<1	30%	Pass
M21-Se56966	NCP	mg/kg				000/	Dees
M21-Se56966 M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
M21-Se56966 M21-Se56966 M21-Se56966	NCP NCP	mg/kg mg/kg	< 0.5 < 0.5	< 0.5 < 0.5	<1 <1	30%	Pass
M21-Se56966 M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1		
	M21-Se46940 M21-Se46940 M21-Se46940 M21-Se46940 M21-Se46940 M21-Se45649 M21-Se45649 M21-Se46551 M21-Se46943 M21-Se45649 M21-Se45649 M21-Se45649 M21-Se45649 M21-Se45649 M21-Se45649 M21-Se45649 M21-Se45649 M21-Se45649	M21-Se46940 CP M21-Se46549 NCP M21-Se46551 NCP M21-Se46943 CP M21-Se46943 CP M21-Se46943 NCP M21-Se45649 NCP M21-Se47916 NCP M21-Se47916 NCP M21-Se47786 NCP M21-Se47786 NCP M21-Se56966 NCP M21-Se56966 NCP M21-Se56966 NCP M21-Se569666 NCP	M21-Se46940 CP mg/kg M21-Se46561 NCP mg/kg M21-Se46943 CP meg/100g M21-Se46943 CP mg/kg M21-Se46943 CP mg/kg M21-Se46949 NCP mg/kg M21-Se46949 NCP mg/kg M21-Se45649 NCP mg/kg M21-Se46943 NCP mg/kg M21-Se56	$\begin{array}{llllllllllllllllllllllllllllllllllll$	M21-Se46940 CP mg/kg < 0.1 < 0.1 M21-Se46940 CP mg/kg < 0.1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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Duplicate Volatile Organics				Result 1	Result 2	RPD			
1.4-Dichlorobenzene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	_
Bromobenzene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	-
Carbon disulfide	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
	M21-Se56966	NCP		< 0.5	< 0.5	<1	30%	Pass	
Chloroethane			mg/kg			<1			
Chloroform	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30% 30%	Pass Pass	
Chloromethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1			
cis-1.3-Dichloropropene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5		30%	Pass	
Dibromochloromethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
lodomethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M21-Se56966	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	_
4.4'-DDD	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	_
4.4'-DDE	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
ь-нсн	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	_
Endrin ketone	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	_
g-HCH (Lindane)	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	_
Heptachlor	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	_
Heptachlor epoxide	M21-Se46207	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	_
Hexachlorobenzene	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
	11121 0040000								
Methoxychlor	M21-Se48803	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

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Duplicate Organophosphorus Pesticid	les			Result 1	Result 2	RPD			
Azinphos-methyl	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
	M21-Se48803	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Coumaphos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-S	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O		NCP		< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M21-Se48803		mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M21-Se48803	NCP	mg/kg		< 0.2	<1	30%	Pass	
Disulfoton	M21-Se48803	NCP	mg/kg	< 0.2		<1	30%	Pass	
EPN	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2			Pass	
Ethion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%		
Ethoprop	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	_
Mevinphos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M21-Se48803	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M21-Se48803	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	_
Terbufos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate				15/16/2017			N 1 - 1 20		
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M21-Se48803	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate	1121 0010000						and the second		
Acid Herbicides				Result 1	Result 2	RPD			
2.4-D	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-DB	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	M21-Se45655 M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-TP		NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Actril (loxynil)	M21-Se45655			< 0.5	< 0.5	<1	30%	Pass	
Dicamba	M21-Se45655	NCP NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorprop	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

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Duplicate		المدعان		- 1- A A				
Acid Herbicides				Result 1	Result 2	RPD		
Dinoseb	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPA	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPB	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Месоргор	M21-Se45655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate		1					55 F. E. K	and the second second
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-Dichlorophenol	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-Trichlorophenol	M21-Se48803	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2.4.6-Trichlorophenol	M21-Se48803	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2.6-Dichlorophenol	M21-Se48895	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M21-Se48803	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M21-Se48803	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M21-Se48803	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4.6-dinitrophenol	M21-Se48803	NCP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4.6-dinitrophenol	M21-Se48803	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M21-Se48803	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2.4-Dimethylphenol	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-Dinitrophenol	M21-Se48803	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M21-Se48803	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M21-Se48803	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Total cresols*	M21-Se48895	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Nitrophenol	M21-Se48803	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M21-Se48803	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M21-Se48803	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

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🛟 eurofins **Environment Testing**

Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivalabile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all OACC acceptance criteria, and are enlifely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Harry Bacalis Emily Rosenberg Jonathon Angell Joseph Edouard Scott Beddoes Vivian Wang

Analytical Services Manager Senior Analyst-Metal (VIC) Senior Analyst-Inorganic (QLD) Senior Analyst-Organic (VIC) Senior Analyst-Inorganic (VIC) Senior Analyst-Volatile (VIC)

Ŷ Glenn Jackson

General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here

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Certificate of Analysis

Environment Testing

Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122





NATA Accredited Accreditation Nur Site Number 1254 ber 1261

ISO/IEC 17025 - Testing ed for Recog of the calibra ion, Nic

Attention:

Ruchurne Smith

Report Project name Project ID Received Date

826851-W McRobies Gully Waste Management Center 98633M Sep 23, 2021

Client Sample ID			98633M_R1	98633M_TB1
Sample Matrix			Water	Water
Eurofins Sample No.			M21-Se46953	M21-Se46954
Date Sampled			Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-
Naphthalene ^{N02}	0.01	mg/L	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	94	-
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-

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Environment Testing

Client Sample ID			98633M_R1	98633M_TB1
Sample Matrix			Water	Water
Eurofins Sample No.			M21-Se46953	M21-Se46954
Date Sampled			Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Naphthalene	0.001	mg/L	< 0.001	-
Phenanthrene	0.001	mg/L	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	
Total PAH*	0.001	mg/L	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	146	-
p-Terphenyl-d14 (surr.)	1	%	85	-
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	· · ·
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	· · · ·
Copper	0.001	mg/L	< 0.001	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Molybdenum	0.005	mg/L	< 0.005	· · ·
Nickel	0.001	mg/L	< 0.001	-
Selenium	0.001	mg/L	< 0.001	
Silver	0.005	mg/L	< 0.005	-
Tin	0.005	mg/L	< 0.005	-
Zinc	0.005	mg/L	< 0.005	-

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Environment Testing

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite 7 (metals 12)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Sep 23, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 23, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Sep 23, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Sep 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Sep 23, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals IWRG 621 : Metals M12	Melbourne	Sep 23, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons	Melbourne	Sep 23, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000 Page 3 of 12 Report Number: 826851-W

	email: EnviroSales@curofins.com		. 4	Dandenong South VIC 3175 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254	Phone	Cove W. : +61 2 # 1261	16 Mars Road Lane Cove West NSW 2066 Phone : +61 2 9900 8400 NATA # 1261 Sile # 18217		1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 46 NATA # 1261 Site # 20	OLD 41 +61 7 39 1261 Sile	Murarie QLD 4172 Phone : +61 7 392 4600 NATA # 1261 Site # 20794		2 Indus yfield E Box 60 Dne : +6 TA # 12	4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Site # 25079	45-45 Banksia Road Weishpool WA 6105 Phone : +61 8 6253 4444 NATA # 2377 Site # 2370	35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	43 Detroit Drive Rollestan, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
Company Name: Address:	Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122	d VIC				Order No.: Report #: Phone: Fax:	nt #: 11 #:		826851 9508 0100	51 D100					Received: Due: Priority: Contact Name:	Sep 23, 2021 10:23 AM Oct 1, 2021 5 Day Ruchurne Smith	AM
Project Name: Project ID:	McRobies Gu 98633M	ully Waste Mar	McRobies Gully Waste Management Center 98633M	ter											Eurofins Analvtical S	Eurofins Analvtical Services Manager : Harry Bacalis	urry Bacalis
	Sa	Sample Detail			HOLD	Sulphate (as SO4)	TRH C6-C10	Organophosphorus Pesticides	Acid Herbicides	VIC EPA Metals : Metals M17	Moisture Set	NEPM Screen for Soil Classification	Vic EPA 1828.2 Table 3 (Solids)	Eurofins Suite 7 (metals 12)			
Melhourne ahoratory - NATA # 1261 Site # 1254	Drv - NATA # 124	61 Site # 1254			×	×	×	×	×	×	×	×	×	×			
Svdnev Laboratory - NATA # 1261 Site # 18217	- NATA # 1261 5	Site # 18217			⊢	+	+	+									
Brisbane Laboratory - NATA # 1261 Site # 20794	-y - NATA # 1261	1 Site # 20794		No. of the second		-	-					×					
Mayfield Laboratory - NATA # 1261 Site # 25079	v - NATA # 1261	Site # 25079			-	-	-										
Perth Laboratory - NATA # 2377 Site # 2370	NATA # 2377 Sit	te # 2370			-		-	_									
External Laboratory	٨																
No Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			_										
98633M_BH1_ 0.1	98633M_BH1_ Sep 21, 2021 0.1		Soil	M21-Se46939							×			×			
98633M_BH1_ 0.5	Sep 21, 2021		Soil	M21-Se46940		-					×			×			
98633M_BH2_ 0.1	Sep 21, 2021		Soil	M21-Se46941							×			×			
98633M_BH2_ 0.5	Sep 21, 2021		Soil	M21-Se46942							×			×			
98633M_BH2_	_ Sep 21, 2021		Soil	M21-Se46943	×	<u> </u>	×	_			×	×		×			
98633M BH3	Sep 21, 2021		Soil	M21-Se46944	\square	\vdash	$\left \right $				×			×			

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web: www.eurofins.com.au email: EnviroSales@ourofins.com		Environment. Testing	C 3175 000 254	Sydn Unit F 16 Mi Lane Phone NATA	ay 3, Buildi rrs Road Cove We 1: +61 2 # 1261	Sydney Unit F3, Building F 16 Mars Roads Lane Cove Wash NSW 2066 F Lane Cove Wash NSW 2066 F Phone : +61 2 9900 8400 NATA # 1261 Sile # 18217	10 066 Pt 0	risbane 21 Smal urarrie C none : +t VTA # 12	Brisbane 1/21 Smallwood Place Murarie QLD 4172 Phone : +617 3902 46 NATA # 1261 Site # 20	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794		Newcaratie 4/52 Industrial Drive Mayfreid East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Sile # 25079			Christehurth 43 Detrolt Drive Rolleston, Christehurch 7675 Phone: 0800 858 450 IANZ # 1290
Company Name: Address:	Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122				Order No.: Report #: Phone: Fax:	rt #: ::	20	826851 9508 0100	100				Received: Due: Priority: Contact Name:	Sep 23, 2021 10:23 AM Oct 1, 2021 5 Day Ruchurne Smith	8 AM
Project Name: Project ID:	McRobies Gully Wi 98633M	McRobies Gully Waste Management Center 98633M	nter										Eurofins Analytical S	Eurofins Analytical Services Manager : Harry Bacalis	arry Bacalis
	Sample Detail	Detail		Chloride	Sulphate (as SO4)	TRH C6-C10	Organophosphorus Pesticides	Acid Herbicides	VIC EPA Metals : Metals M17	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite 7 (metals 12) Vic EPA 1828.2 Table 3 (Solids)			
Melbourne Laborat	Melbourne Laboratory - NATA # 1261 Site # 1254	e # 1254		×	×	×	×	×	×	×	×	××			
Sydney Laboratory	Sydney Laboratory - NATA # 1261 Site # 18217	18217													
Brisbane Laborato	Brisbane Laboratory - NATA # 1261 Site # 20794	# 20794			-	_					×				
Mayfield Laborato	Mayfield Laboratory - NATA # 1261 Site # 25079	# 25079		-	+	_				+	+				
Perth Laboratory -	Perth Laboratory - NATA # 2377 Site # 2370	370		+	+	-									
External Laboratory	2			+	+	-					1				
7 98633M_BH3_	0.1 98633M_BH3_ Sep 21, 2021	Soil	M21-Se46945	-	-					×		×			
8 98633M_BH4_	Sep 21, 2021	Soil	M21-Se46946	-	-					×		×			
9 98633M_BH4_ 0.5	Sep 21, 2021	Soil	M21-Se46947	-	-					×		×			
10 98633M_BH4_ 1.0	Sep 21, 2021	Soil	M21-Se46948							×		×			
11 98633M_BH5_ 0.1	Sep 21, 2021	Soil	M21-Se46949	×	×		×	×	×	×	×	×			
12 98633M_BH5_ 0.5	98633M_BH5_ Sep 21, 2021 0.5	Soil	M21-Se46950			_				×		×			

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	_														
web: www.eurofins.com.au email: EnviroSales@eurofins.com	Environment Test	nt Testing	Melbourne 6 Monterey Road Dandenong South VIC 3175 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254	Sydney Unit FS, Building F 16 Mars Road Lane Cove West NSW 2066 Phone : +51 2 9900 8400 Phone : +51 519 # 18217	Building Road ve West +61 2 99 1261 Sit	F NSW 2(00 8400 e # 1821		1/21 SmBatie 1/21 Smallwood Place Murarife QLD 4172 Phone : +51 7 3902 4600 NATA # 1261 Site # 20794	rood Pla D 4172 7 3902 1 Site #	ce 4600 20794	Newic 4/52 I Mayfit PO B¢ Phone NATA	Newcestle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4958 8448 NATA # 1261 Site # 25079	Perth 46-43 Banksia Road Weishpool WA 6106 Phone : +61 8 6253 4444 NATA # 2377 Site # 2370	Auckland 35 O'Rorke Road Perrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Unifisiciturun 2. Detroit Drivis Rolleston, Christchurch 7675 Phone : 0800 856 450 JANZ # 1290
Company Name: 5 Address: 5	Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122			O K C K	Order No.: Report #: Phone: Fax:	:	86	826851 9508 0100	0				Received: Due: Priority: Contact Name:	Sep 23, 2021 10:23 AM Oct 1, 2021 5 Day Ruchurne Smith	AM
Project Name: N Project ID: 9	McRobies Gully Waste Management Center 98633M	Management Ce	nter									_	Eurofins Analytical Services Manager ; Harry Bacalis	ervices Manager ; Ha	arry Bacalis
	Sample Detail	B	Chloride	HOLD	Sulphate (as SO4)	TRH C6-C10	Organophosphorus Pesticides	Acid Herbicides	VIC EPA Metals : Metals M17	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite 7 (metals 12) Vic EPA 1828.2 Table 3 (Solids)			
Melbourne Laboratory - NATA # 1261 Site # 1254	- NATA # 1261 Site #	1254		×	×	×	×	×	×	×	×	××			
Sydney Laboratory - NATA # 1261 Site # 18217	ATA # 1261 Site # 18;	217									Η				
Brisbane Laboratory - NATA # 1261 Site # 20794	NATA # 1261 Site # 2	0794									×				
Mayfield Laboratory - NATA # 1261 Site # 25079	IATA # 1261 Site # 25	6205									-				
Perth Laboratory - NATA # 2377 Site # 2370	A # 2377 Site # 2370			_						-					
External Laboratory					_			ĺ			-				
13 98633M_BH5_ Sep 21, 2021 1.0	sp 21, 2021	Soil	M21-Se46951		_					×		×			
14 98633M QC1 Se	Sep 21, 2021	Soil	M21-Se46952							×		×			
15 98633M_R1 Se	Sep 21, 2021	Water	M21-Se46953									×			
16 98633M_TB1 Se	Sep 21, 2021	Water	M21-Se46954			×									
17 98633M_BH1_ Sep 21, 2021 1.0	sp 21, 2021	Soil	M21-Se46955	×											
18 98633M_BH3_ Sep 21, 2021 1.0	ap 21, 2021	Soil	M21-Se46956	×											
Test Counts			A STATE OF	2 2	2	-	-	-	-	14	2	1 14			

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

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Environment Testing

Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site
- Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request. 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All blota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant, Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted other
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued. 9.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as staled on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

ug/L: micrograms per litre

MPN/100mL: Most Probable Number of organisms per 100 millilitres

%: Percentage

mg/L: milligrams per litre

NTU: Nephelometric Turbidity Units

ppb: Parts per billion

Units

mg/kg: milligrams per kilogram
ppm: Parts per million
org/100mL: Organisms per 100 millilitres

Terms	
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
coc	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quatient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must ile between 0-50% Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phonols & 50-150% PFASs.

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was offected

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent
 and Duplicate data shown is not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Date Reported: Oct 07, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

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Environment Testing

Quality Control Results

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank		1120 Barrier		N	
Total Recoverable Hydrocarbons					
TRH C6-C9	mg/L	< 0.02	0.02	Pass	
TRH C10-C14	mg/L	< 0.05	0.05	Pass	
TRH C15-C28	mg/L	< 0.1	0.1	Pass	
TRH C29-C36	mg/L	< 0.1	0.1	Pass	
Naphthalene	mg/L	< 0.01	0.01	Pass	
TRH C6-C10	mg/L	< 0.02	0.02	Pass	
TRH >C10-C16	mg/L	< 0.05	0.05	Pass	
TRH >C16-C34	mg/L	< 0.1	0.1	Pass	
TRH >C34-C40	mg/L	< 0.1	0.1	Pass	
Method Blank	and the second second				
BTEX					
Benzene	mg/L	< 0.001	0.001	Pass	
Toluene	mg/L	< 0.001	0.001	Pass	
Ethylbenzene	mg/L	< 0.001	0.001	Pass	_
m&p-Xylenes	mg/L	< 0.002	0.002	Pass	
o-Xylene	mg/L	< 0.001	0.001	Pass	
Xylenes - Total*	mg/L	< 0.003	0.003	Pass	
Method Blank	1 mg/c			200	
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	mg/L	< 0.001	0.001	Pass	
	mg/L	< 0.001	0.001	Pass	
Acenaphthylene	mg/L	< 0.001	0.001	Pass	
Anthracene	mg/L	< 0.001	0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001	0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001	0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001	0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001	0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001	0.001	Pass	
Chrysene	mg/L	< 0.001	0.001	Pass	
Dibenz(a.h)anthracene		< 0.001	0.001	Pass	
Fluoranthene	mg/L	< 0.001	0.001	Pass	
Fluorene	mg/L		0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001	0.001	Pass	
Naphthalene	mg/L	< 0.001	0.001	Pass	
Phenanthrene	mg/L	< 0.001	0.001	Pass	
Pyrene	mg/L	< 0.001	0.001	Fass	
Method Blank					
Heavy Metals			0.004	Pass	
Arsenic	mg/L	< 0.001	0.001	Pass	7
Cadmium	mg/L	< 0.0002	0.0002		
Chromium	mg/L	< 0.001	0.001	Pass	
Copper	mg/L	< 0.001	0.001	Pass	
Lead	mg/L	< 0.001	0.001	Pass	
Mercury	mg/L	< 0.0001	0.0001	Pass	
Molybdenum	mg/L	< 0.005	0.005	Pass	
Nickel	mg/L	< 0.001	0.001	Pass	
Selenium	mg/L	< 0.001	0.001	Pass	
Silver	mg/L	< 0.005	0.005	Pass	
Tin	mg/L	< 0.005	0.005	Pass	
Zinc	mg/L	< 0.005	0.005	Pass	

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Environment Testing

Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons								
TRH C6-C9			%	95		70-130	Pass	
TRH C10-C14			%	115		70-130	Pass	
Naphthalene			%	89		70-130	Pass	
TRH C6-C10			%	94		70-130	Pass	
TRH >C10-C16			%	119		70-130	Pass	
LCS - % Recovery		10.35	1.6.5.3	(the second		all shares	gra S.	
BTEX						_	-	
Benzene			%	90		70-130	Pass	
Toluene			%	85		70-130	Pass	
Ethylbenzene			%	84		70-130	Pass	
m&p-Xylenes			%	85		70-130	Pass	
Xylenes - Total*			%	85		70-130	Pass	
LCS - % Recovery							-1-1-1	
Polycyclic Aromatic Hydrocarbons								
Acenaphthene			%	103		70-130	Pass	
Acenaphthylene			%	77		70-130	Pass	
Anthracene			%	81		70-130	Pass	
Benz(a)anthracene			%	71		70-130	Pass	
Benzo(a)pyrene			%	74		70-130	Pass	
Benzo(b&j)fluoranthene			%	73		70-130	Pass	
Benzo(g.h.i)perylene			%	72		70-130	Pass	
Benzo(k)fluoranthene			%	86		70-130	Pass	
Chrysene			%	82		70-130	Pass	
Dibenz(a.h)anthracene			%	75		70-130	Pass	
Fluoranthene			%	78		70-130	Pass	
Fluorene			%	80		70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	74		70-130	Pass	
Naphthalene			%	81		70-130	Pass	
Phenanthrene			%	74		70-130	Pass	
Pyrene				113		70-130	Pass	
LCS - % Recovery	Server States and a		%				1274	
Heavy Metals				1				
Arsenic			%	104	· · · · · · · · · · · · · · · · · · ·	80-120	Pass	
Cadmium			%	103		80-120	Pass	
Chromium			%	98		80-120	Pass	
Copper			%	97		80-120	Pass	
Lead			%	113		80-120	Pass	
Mercury			%	99		80-120	Pass	
Molybdenum			%	104		80-120	Pass	
Nickel			%	100		80-120	Pass	
Selenium			%	100		80-120	Pass	
Silver			%	102		80-120	Pass	
Tin			%	110		80-120	Pass	
Zinc			%	100		80-120	Pass	
Test	Lab Sample ID	QA	Units	Result 1		Acceptance	Pass	Qualifyin
Spike - % Recovery	Lab Sample ID	Source	Units	Result 1	No succession	Limits	Limits	Code
Total Recoverable Hydrocarbons		-	-	Result 1			-	
TRH C6-C9	M21-Se35454	NCP	%	99		70-130	Pass	
	B21-Se42424	NCP	%	99		70-130	Pass	
TRH C10-C14	M21-Se35454	NCP	%	85		70-130	Pass	
Naphthalene		NCP				70-130	Pass	
TRH C6-C10	M21-Se35454		%	99			1	
TRH >C10-C16	B21-Se42424	NCP	%	99	· · · · · · · · · · · · · · · · · · ·	70-130	Pass	

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Environment Testing

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
BTEX				Result 1				-	
Benzene	M21-Se35454	NCP	%	85		_	70-130	Pass	
Toluene	M21-Se35454	NCP	%	85			70-130	Pass	
Ethylbenzene	M21-Se35454	NCP	%	86			70-130	Pass	
m&p-Xylenes	M21-Se35454	NCP	%	87			70-130	Pass	
o-Xylene	M21-Se35454	NCP	%	87			70-130	Pass	
Xylenes - Total*	M21-Se35454	NCP	%	87			70-130	Pass	
Spike - % Recovery	1023		17.13		120			1.5	
Polycyclic Aromatic Hydroca	rbons			Result 1					
Acenaphthene	B21-Se32725	NCP	%	89			70-130	Pass	
Acenaphthylene	B21-Se32725	NCP	%	60			70-130	Fail	Q08
Benz(a)anthracene	B21-Se32725	NCP	%	90			70-130	Pass	
Benzo(a)pyrene	B21-Se32725	NCP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	B21-Se32725	NCP	%	87			70-130	Pass	
Benzo(g.h.i)perylene	B21-Se32725	NCP	%	76			70-130	Pass	
Benzo(k)fluoranthene	B21-Se32725	NCP	%	103			70-130	Pass	
Chrysene	B21-Se32725	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	B21-Se32725	NCP	%	80			70-130	Pass	
Fluoranthene	B21-Se32725	NCP	%	83			70-130	Pass	
Fluorene	B21-Se32725	NCP	%	88			70-130	Pass	
Indeno(1.2.3-cd)pyrene	B21-Se32725	NCP	%	85			70-130	Pass	
Naphthalene	B21-Se32725	NCP	%	81			70-130	Pass	
Phenanthrene	B21-Se32725	NCP	%	81			70-130	Pass	
Pyrene	B21-Se32725	NCP	%	86			70-130	Pass	
Spike - % Recovery	DET-OCOLIEG		,,,		Bart Contract	1000	1	a funi	
Heavy Metals				Result 1					
Arsenic	M21-Se47259	NCP	%	99			75-125	Pass	
Cadmium	M21-Se47259	NCP	%	105			75-125	Pass	
Chromium	M21-Se47259	NCP	%	94			75-125	Pass	
Copper	M21-Se47259	NCP	%	91			75-125	Pass	
Lead	M21-Se47259	NCP	%	110			75-125	Pass	
Mercury	M21-Se47259	NCP	%	114			75-125	Pass	
Molybdenum	M21-Se47259	NCP	%	103			75-125	Pass	
Nickel	M21-Se47259	NCP	%	95			75-125	Pass	
Selenium	M21-Se47259	NCP	%	94			75-125	Pass	
Silver	M21-Se47259	NCP	%	103			75-125	Pass	
Tin	M21-Se47259	NCP	%	109			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate					13-14-2				
Total Recoverable Hydrocarb	ons			Result 1	Result 2	RPD			
TRH C6-C9	M21-Se40039	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	B21-Se42423	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	B21-Se42423	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B21-Se42423	NCP	ma/L	< 0.1	< 0.1	<1	30%	Pass	
Naphthalene	M21-Se40039	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M21-Se40039	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	B21-Se42423	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	B21-Se42423	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	B21-Se42423	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Date Reported: Oct 07, 2021

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Environment Testing

Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	M21-Se40039	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	M21-Se40039	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	M21-Se40039	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	M21-Se40039	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	M21-Se40039	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total*	M21-Se40039	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydroca	rbons			Result 1	Result 2	RPD		
Acenaphthene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Acenaphthylene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Anthracene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benz(a)anthracene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(a)pyrene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(b&j)fluoranthene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(g.h.i)perylene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(k)fluoranthene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chrysene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibenz(a.h)anthracene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Fluoranthene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Fluorene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Naphthalene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Phenanthrene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Pyrene	M21-Se48005	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate	A CENTRAL ELL		1 - 113					
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M21-Se47259	NCP	mg/L	0.002	0.002	2.0	30%	Pass
Cadmium	M21-Se47259	NCP	mg/L	0.0003	0.0003	7.0	30%	Pass
Chromium	M21-Se47259	NCP	mg/L	0.008	0.008	3.0	30%	Pass
Copper	M21-Se47259	NCP	mg/L	0.071	0.069	3.0	30%	Pass
Lead	M21-Se47259	NCP	mg/L	0.015	0.015	2.0	30%	Pass
Mercury	M21-Se47259	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Molybdenum	M21-Se47259	NCP	mg/L	0.012	0.012	1.0	30%	Pass
Nickel	M21-Se47259	NCP	mg/L	0.030	0.029	1.0	30%	Pass
Selenium	M21-Se47259	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Silver	M21-Se47259	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Tin	M21-Se47259	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Zinc	M21-Se47259	NCP	mg/L	0.53	0.52	2.0	30%	Pass

Date Reported: Oct 07, 2021

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Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QACE acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Harry Bacalis Emily Rosenberg Joseph Edouard Vivian Wang

Analytical Services Manager Senior Analyst-Metal (VIC) Senior Analyst-Organic (VIC) Senior Analyst-Volatile (VIC)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

Environment Testing

Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122



NATA

NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025 -- Testing ATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the quivalence of testing, medical testing, calibration, nspection, proficiency testing schame providers and derence materials produces reports and califications.

Attention:

Ruchurne Smith

Report Project name Project ID Received Date 831302-S MCROBIES GULLY WASTE MANAGEMENT CENTER 98633M Oct 12, 2021

Client Sample ID			98633M_BH1
Sample Matrix			Soil
Eurofins Sample No.			M21-Oc22523
Date Sampled			Sep 21, 2021
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.0
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.3
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.6
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.5
Benzo(a)pyrene	0.5	mg/kg	0.9
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.8
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	0.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	2.8
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.7
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	1.0
Pyrene	0.5	mg/kg	2.6
Total PAH*	0.5	mg/kg	10.1
2-Fluorobiphenyl (surr.)	1	%	96
p-Terphenyl-d14 (surr.)	1	%	113
% Moisture	1	%	18

Date Reported: Oct 12, 2021

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Sample History Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description Polycyclic Aromatic Hydrocarbons	Testing Site Melbourne	Extracted Oct 12, 2021	Holding Time 14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Melbourne	Oct 12, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

Date Reported: Oct 12, 2021

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eurofine		AF	ABN: 50 005 085 521					ABN: 91 05 0159 898	NZBN: 8429046024954	
	Environment Tes	ting	Melbourne Keonterey Road Dandenong South VIC 3175 Phone : +61 3 8564 500 Phone : +61 3 8564 500 NATA # 1261 Site # 1254	Sydn Unit F 16 Ma Lane (Phone NATA	Sydney Sydney 16 Mars Road Lane Cove West NSW 2065 Phone : +61 2 9900 8400 Phone : +1261 Site # 18217	Briabane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794	New/Cantile Mayfield East NSW 2304 Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448 NATA # 1261 Sile # 25079	Parth 46-48 Banksia Road Weishpool WA 6106 Phone: +61 8 6253 4444 NATA # 2377 Site # 2370	Auckland SofRorke Road Pennose, Auckland 1061 Phone: 1-64 9 526 45 51 IANZ # 1327	Christchurch 43 Defroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
Company Name: Prensa Ply Lid VIC Address: 5 Burwood Rd Hawthorn VIC 3122	d VIC				Order No.: Report #: Phone: Fax:	831302 9508 0100		Received: Due: Priority: Contact Name:	Oct 12, 2021 12:09 PM Oct 12, 2021 Same day Ruchurne Smith	M
Project Name: MCROBIES (Project ID: 98633M	GULLY WAST	MCROBIES GULLY WASTE MANAGEMENT CENTER 98633M	NT CENTER				-	Eurofins Analytical Services Manager : Harry Bacalis	ervices Manager : Ha	rry Bacalis
S	Sample Detail		Polycyclic Aromatic Hydrocarbons	Moisture Set						
Melbourne Laboratory - NATA # 1261 Site # 1254	61 Site # 1254	4		×	×					
Sydney Laboratory - NATA # 1261 Site # 18217	Site # 18217	Warmer I								
Brisbane Laboratory - NATA # 1261 Site # 20794	I Site # 20794		111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Mayfield Laboratory - NATA # 1261 Site # 25079	Site # 25079	- Tarter II		+	Т					
Perth Laboratory - NATA # 2377 Site # 2370 External Laboratory	e # 2370			+						
No Sample ID Sample Date	Sampling	Matrix	LABID							
1 98633M_BH1_ Sep 21, 2021 1.0		Soil	M21-Oc22523	×	×					
Test Counts				-	-					

Item No. 7.1.5

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Internal Quality Control Review and Glossary

General

Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.

- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All blota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- 9. This report replaces any interim results previously issued.

Holding Times

mg/kg: milligrams per kilogram

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

mg/L: milligrams per litre

For VOCs containing viryl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

ug/L: micrograms per litre

Units

ppm: Parts per million		ppb: Parts per billion	%: Percentage
org/100mL: Organisms per	100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres
Terms			
Dry	Where a moisture has been determined	on a solid sample the result is expressed on a dry basis.	
LOR	Limit of Reporting.		
SPIKE	Addition of the analyte to the sample an	nd reported as percentage recovery.	
RPD	Relative Percent Difference between tw	o Duplicate pieces of analysis.	
LCS	Laboratory Control Sample - reported a	s percent recovery.	
CRM	Certified Reference Material - reported		
Method Blank	In the case of solid samples these are p	performed on laboratory certified clean sands and in the case of water	r samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the	analyte target and reported as percentage recovery.	
Duplicate	A second piece of analysis from the sar	me sample and reported in the same units as the result to show comp	arison.
USEPA	United States Environmental Protection	Agency	
APHA	American Public Health Association		
TCLP	Toxicity Characteristic Leaching Proceed	lure	
coc	Chain of Custody		
SRA	Sample Receipt Advice		
QSM	US Department of Defense Quality Sys	tems Manual Version	
CP	Client Parent - QC was performed on sa	amples pertaining to this report	
NCP	Non-Client Parent - QC performed on s	amples not pertaining to this report, QC is representative of the seque	ance or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient		
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA,	, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA	

QC - Acceptance Criteria The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surropate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs.

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding
- time.Analysis will begin as soon as possible after sample receipt. 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Date Reported: Oct 12, 2021

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Quality Control Results

Т	est		Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank		11 A	12 . S.	-10 -ST		1996 (1997 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 -		
Polycyclic Aromatic Hydrocar	rbons							
Acenaphthene			mg/kg	< 0.5		0.5	Pass	
Acenaphthylene			mg/kg	< 0.5		0.5	Pass	
Anthracene			mg/kg	< 0.5		0.5	Pass	
Benz(a)anthracene			mg/kg	< 0.5		0.5	Pass	
Benzo(a)pyrene			mg/kg	< 0.5		0.5	Pass	
Benzo(b&j)fluoranthene			mg/kg	< 0.5		0.5	Pass	
Benzo(g.h.i)perylene			mg/kg	< 0.5		0.5	Pass	
Benzo(k)fluoranthene			mg/kg	< 0.5		0.5	Pass	
Chrysene			mg/kg	< 0.5		0.5	Pass	
Dibenz(a.h)anthracene			mg/kg	< 0.5		0.5	Pass	
Fluoranthene			mg/kg	< 0.5		0.5	Pass	
Fluorene			mg/kg	< 0.5		0.5	Pass	
Indeno(1.2.3-cd)pyrene			mg/kg	< 0.5		0.5	Pass	
Naphthalene			mg/kg	< 0.5		0.5	Pass	
Phenanthrene			mg/kg	< 0.5		0.5	Pass	
Pyrene			mg/kg	< 0.5		0.5	Pass	
LCS - % Recovery								
Polycyclic Aromatic Hydroca	rbons							
Acenaphthene			%	84		70-130	Pass	
Acenaphthylene			%	94		70-130	Pass	
Anthracene			%	93		70-130	Pass	
Benz(a)anthracene			%	76		70-130	Pass	
Benzo(a)pyrene			%	88		70-130	Pass	
Benzo(b&)fluoranthene			%	94		70-130	Pass	
Benzo(g.h.i)perylene				86		70-130	Pass	
Benzo(k)fluoranthene				94		70-130	Pass	
Chrysene			%	92		70-130	Pass	
Dibenz(a.h)anthracene			%	81		70-130	Pass	
Fluoranthene		_	%	74		70-130	Pass	
Fluorene			%	81		70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	78		70-130	Pass	
Naphthalene			%	94		70-130	Pass	
Phenanthrene			%	80		70-130	Pass	
Pyrene			%	75		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance	Pass Limits	Qualifying Code
Spike - % Recovery		000100	88. B. B.	and the second	TRACE AND A	Linito		
Polycyclic Aromatic Hydroca	rbons			Result 1				
Acenaphthene	M21-Oc18953	NCP	%	73		70-130	Pass	
Acenaphthylene	M21-Oc18953	NCP	%	85		70-130	Pass	-
Anthracene	M21-Oc18953	NCP	%	87		70-130	Pass	
Benz(a)anthracene	M21-Oc18953	NCP	%	99		70-130	Pass	
Benzo(a)pyrene	M21-Oc18953	NCP	%	77		70-130	Pass	
Benzo(b&j)fluoranthene	M21-Oc18953 M21-Oc18953	NCP	%	74		70-130	Pass	
Benzo(baj/iluorantnene Benzo(g.h.i)perylene	M21-Oc18953 M21-Oc18953	NCP	%	74		70-130	Pass	
Benzo(k)fluoranthene	M21-Oc18953	NCP	%	74		70-130	Pass	
Chrysene	M21-Oc18953	NCP	%	78		70-130	Pass	
Dibenz(a.h)anthracene Fluoranthene	M21-Oc18953 M21-Oc18953	NCP NCP	%	72 97		70-130	Pass Pass	

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Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Indeno(1.2.3-cd)pyrene	M21-Oc18953	NCP	%	72			70-130	Pass	
Naphthalene	M21-Oc18953	NCP	%	83			70-130	Pass	
Phenanthrene	M21-Oc18953	NCP	%	71			70-130	Pass	
Pyrene	M21-Oc18953	NCP	%	97			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate			1952 18	12000		12.00		COL.	
Polycyclic Aromatic Hydroca	rbons			Result 1	Result 2	RPD			
Acenaphthene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&))fluoranthene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M21-Oc18952	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate			17.512			2012		The second	
				Result 1	Result 2	RPD			
% Moisture	M21-Oc22523	CP	%	18	17	3.0	30%	Pass	

Date Reported: Oct 12, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

Page 6 of 7 Report Number: 831302-S

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Environment Testing

Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments Description

Code

N07

Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Harry Bacalis Joseph Edouard Analytical Services Manager Senior Analyst-Organic (VIC)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here

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Date Reported: Oct 12, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

Page 7 of 7 Report Number: 831302-S

Certificate of Analysis

🔅 eurofins **Environment Testing** NATA Accredite 1261 ion Nun er 1254 Prensa Pty Ltd VIC NATA 5 Burwood Rd ance with ISO/IEC 17025 -the ILAC Mutual Record Accredited for con NATA is a signato Hawthorn VIC 3122 Ruchurne Smith Attention: Report 830197-L-V2 Project name McRobies Gully Waste Management Center 98633M Project ID Received Date Oct 07, 2021 98633M_BH3_ 98633M_BH1_ 0.5 98633M_BH3_ 98633M_BH5_ Client Sample ID AUS Leachate AUS Leachate AUS Leachate AUS Leachate Sample Matrix M21-Oc12630 M21-Oc12631 M21-Oc12632 M21-Oc12633 Eurofins Sample No. Sep 21, 2021 Date Sampled Sep 21, 2021 Sep 21, 2021 Sep 21, 2021 LOR Unit Test/Reference Polycyclic Aromatic Hydrocarbons 0.012 < 0.001 < 0.001 < 0.001 0.001 mg/L Acenaphthene < 0.001 < 0.001 0.001 0.004 < 0.001 Acenaphthylene mg/L < 0.001 < 0.001 < 0.001 0.008 Anthracene 0.001 mg/L < 0.001 < 0.001 < 0.001 Benz(a)anthracene 0.001 mg/L < 0.001 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 Benzo(a)pyrene 0.001 < 0.001 < 0.001 < 0.001 < 0.001 Benzo(b&j)fluoranthene^{N07} mg/L < 0.001 < 0.001 < 0.001 Benzo(g.h.i)perylene 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.001 Benzo(k)fluoranthene mg/L < 0.001 < 0.001 < 0.001 < 0.001 0.001 Chrysene mg/L < 0.001 < 0.001 Dibenz(a.h)anthracene 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 0.001 mg/L 0.005 < 0.001 Fluoranthene 0.001 0.011 < 0.001 < 0.001 < 0.001 Fluorene mg/L < 0.001 0.001 < 0.001 < 0.001 < 0.001 mg/L Indeno(1.2.3-cd)pyrene < 0.001 < 0.001 < 0.001 0.002 0.001 Naphthalene mg/L < 0.001 < 0.001 < 0.001 0.040 Phenanthrene 0.001 mg/L < 0.001 0.004 < 0.001 < 0.001 0.001 mg/L Pyrene < 0.001 0.001 mg/L 0.086 < 0.001 < 0.001 Total PAH* 1 % 58 79 58 70 2-Fluorobiphenyl (surr.) 95 65 % 99 106 p-Terphenyl-d14 (surr.) 1 Polycyclic Aromatic Hydrocarbons (Trace level) < 0.00001 0.012 < 0.00001 < 0.00001 0.00001 mg/L Acenaphthene < 0.00001 0.00001 0.0042 < 0.00001 < 0.00001 Acenaphthylene mg/L Anthracene 0.00001 mg/L 0.0083 < 0.00001 < 0.00001 < 0.00001 < 0.00001 < 0.00001 < 0.00001 < 0.00001 0.00001 mg/L Benz(a)anthracene < 0.0005 < 0.0005 < 0.0005 < 0.0005 0.0005 Benzo(a)pyrene ma/L < 0.00001 < 0.00001 < 0.00001 0.00001 < 0.00001 Benzo(b&j)fluoranthene mg/L < 0.00001 < 0.00001 < 0.00001 0.00001 mg/L < 0.00001 Benzo(g.h.i)perylene < 0.00001 0.00001 < 0.00001 < 0.00001 < 0.00001 Benzo(k)fluoranthene mg/L 0.00001 < 0.00001 < 0.00001 < 0.00001 < 0.00001 mg/L Chrysene < 0.00001 < 0.00001 < 0.00001 < 0.00001 0.00001 mg/L Dibenz(a.h)anthracene < 0.00001 < 0.00001 0.0051 < 0.00001 0.00001 Fluoranthene ma/L < 0.00001 < 0.00001 < 0.00001 0.011 Fluorene 0.00001 mg/L < 0.00001 < 0.00001 < 0.00001 < 0.00001 Indeno(1.2.3-cd)pyrene 0.00001 mg/L < 0.00001 0.00001 0.0018 < 0.00001 < 0.00001 Naphthalene mg/L 0.00001 0.040 < 0.00001 < 0.00001 < 0.00001

First Reported: Oct 11, 2021 Date Reported: Oct 13, 2021

Phenanthrene

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

mg/L

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Seurofins Environment Testing

Client Sample ID			98633M_BH1_ 0.5	98633M_BH3_ 0.1	98633M_BH3_ 0.5	98633M_BH5 0.5
Sample Matrix			AUS Leachate	AUS Leachate	AUS Leachate	AUS Leachate
Eurofins Sample No.			M21-Oc12630	M21-Oc12631	M21-Oc12632	M21-Oc12633
Date Sampled			Sep 21, 2021	Sep 21, 2021	Sep 21, 2021	Sep 21, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace leve	el)					
Pyrene	0.00001	mg/L	0.0037	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	0.0861	< 0.0005	< 0.0005	< 0.0005
2-Fluorobiphenyl (surr.)	1	%	58	79	58	70
p-Terphenyl-d14 (surr.)	1	%	99	106	95	65
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	7.0	6.7	6.6	6.6
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	6.1	6.3	6.3	5.9

First Reported: Oct 11, 2021 Date Reported: Oct 13, 2021

Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

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Environment Testing

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description Polycyclic Aromatic Hydrocarbons	Testing Site Melbourne	Extracted Oct 13, 2021	Holding Time 7 Days
- Method: LTM-ORG-2130 PAH and Phenois in Soil and Water Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Oct 13, 2021	7 Days
Method: LTM-ORG-2130 PAH and Phenols in Soll and Water (trace) AUS Leaching Procedure			
pH (initial) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Oct 07, 2021	0 Days
pH (Leachate fluid)	Melbourne	Oct 07, 2021	0 Days
 Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes pH (off) 	Melbourne	Oct 07, 2021	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

First Reported: Oct 11, 2021 Date Reported: Oct 13, 2021 Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000 Page 3 of 7 Report Number: 830197-L-V2

🔅 eurofinc	SU SU		EL	Eurofins Environment Testing Australia Pty Ltd ନାର୍ଥ୍ୟ ସେ ୦୦ଟ ୧୫୫ ସେୀ	Testing) Austr	alia Pty Ltd			Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environment Testing NZ Limited NZBN: 9429046024954	Testing NZ Limited
web: www.eurofins.com.au email: EnviroSales@eurofins.com		Environment Testing		Melbourne Romkrey Raad Dandenorg South VIC 3175 Phone: +61 3 8564 5000 NATA # 1261 Ske # 1254	Sydne Unit F, 16 Ma Lane (Lane (Phone NATA	Sydney Unit F3, Building F 16 Mars Road Lane Cove West NS Phone : +61 2 9900 NATA # 1261 Site #	W 2066 8400 18217	Brisbane 1/21 Smallwood Place Murarie QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 20794	Nowcastle Mayfiel East NSW Mayfiel East NSW 2304 PO Box 60 Wickham 2293 Phone : +612 4968 8448 NATA # 1261 Site # 25079	Pertin Ved Banksia Road Vedshool WA 6106 Phone: +61 8 6253 4444 NATA # 2377 Site # 2370	Auckland So Ronke Road Pennos, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christehurch 43 Detrolt Drukehurch Rolleston, Christehuch 7675 Phone: 0800 856 450 IANZ # 1290
Company Name: Address:	Prensa Pty Ltd VIC 5 Burwood Rd Hawthorn VIC 3122	td VIC				Order No.: Report #: Phone: Fax:	No.: t#:	830197 9508 0100		Received: Due: Priority: Contact Name:	Oct 7, 2021 1:23 PM Oct 12, 2021 3 Day Ruchurne Smith	R.
Project Name: Project ID:	McRobies Gu 98633M	ully Waste Mi	McRobies Gully Waste Management Center 98633M	s						Eurofins Analytical Services Manager : Harry Bacalis	ervices Manager : Ha	rry Bacalis
	σ	Sample Detail			AUS Leaching Procedure Polycyclic Aromatic Hydrocarbons	Polycyclic Aromatic Hydrocarbons (Trace level)	Debuglis Associis Underschere /Terre					
te Laborato	Melbourne Laboratory - NATA # 1261 Site # 1254	61 Site # 125	34		×	×						
aboratory	Sydney Laboratory - NATA # 1261 Site # 18217	Site # 18217			+	_						
Laborator	Brisbane Laboratory - NATA # 1261 Site # 20794	1 Site # 2079	4		+	+	-					
Laborator	Mayfield Laboratory - NATA # 1261 Site # 25079	Site # 25079			+	+	_					
External Laboratory - N	Fertil Laboratory - NATA # 23/7 Site # 23/0 External Laboratory	10 # 7210			+	-	-					
Sample ID	Sample Date	Sampling	Matrix	LABID			1					
98633M_BH1_ 0.5	Sep 21, 2021		AUS Leachate	M21-Oc12630	×	×						
98633M_BH3_ 0.1	Sep 21, 2021		AUS Leachate	M21-Oc12631	×	×						
98633M_BH3_ 3	Sep 21, 2021		AUS Leachate	M21-Oc12632	×	×						
98633M_BH5_ 0.5	Sep 21, 2021		AUS Leachate	M21-Oc12633	×	×						
Test Counts			The second		4 4	4 4						
First Reported:Oct 11, 2021	2021			Eurolins Environmer	If Testing	6 Monte	srey Road, Da	Eurolins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 	ralia 3176			Page 4 of 7
Date Reported:Oct 13, 2021	2021				Abiv ; vidA	1000 000	0.021 1818/010	ABN : 50 005 085 521 (8)860006: 461 3 8564 5000				

Item No. 7.1.5

Agenda (Open Portion) City Planning Committee Meeting - 24/1/2022

🔅 eurofins **Environment Testing**

Internal Quality Control Review and Glossary

General

Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.

- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- 9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

Onito			and the second effects
mg/kg: milligrams per kilogr	am	mg/L: milligrams per litre	ug/L: micrograms per litre
ppm: Parts per million		ppb: Parts per billion	%: Percentage
org/100mL: Organisms per	100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres
Terms			
Dry	Where a moisture has been determined	on a solid sample the result is expressed on a dry basis.	
LOR	Limit of Reporting.		
SPIKE	Addition of the analyte to the sample an	d reported as percentage recovery.	
RPD	Relative Percent Difference between tw	o Duplicate pieces of analysis.	
LCS	Laboratory Control Sample - reported a	s percent recovery.	
CRM	Certified Reference Material - reported		
Method Blank	In the case of solid samples these are p	performed on laboratory certified clean sands and in the case of wate	r samples these are performed on de-ionised water.
Surr - Surrogate		analyte target and reported as percentage recovery.	
Duplicate	A second piece of analysis from the sar	me sample and reported in the same units as the result to show com	parison.
USEPA	United States Environmental Protection	Agency	
APHA	American Public Health Association		
TCLP	Toxicity Characteristic Leaching Proceed	fure	
COC	Chain of Custody		
SRA	Sample Receipt Advice		
QSM	US Department of Defense Quality Sys	tems Manual Version	
CP	Client Parent - QC was performed on si		
NCP	Non-Client Parent - QC performed on s	amples not pertaining to this report, QC is representative of the sequ	ence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient		
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA	, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA	

QC - Acceptance Criteria

a criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR ; RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs...

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

First Reported: Oct 11, 2021 Date Reported: Oct 13, 2021 Eurofins Environment Testing 6 Monterey Road, Dandenong South, Victoria, Australia 3175 ABN : 50 005 085 521 Telephone: +61 3 8564 5000

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Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate	NED VIET S	\$ = = ? T	1997-2	1 L - 1		- 58° M			
Polycyclic Aromatic Hydroca	rbons			Result 1	Result 2	RPD			
Acenaphthene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M21-Oc04264	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

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Page 6 of 7 Report Number: 830197-L-V2

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Comments

V2 Amendments made to add PAH Standard Level results to all Samples

Sample Integrity

Campio integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Description Code C01

Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs N07

Authorised by:

Emily Daos Joseph Edouard Analytical Services Manager Senior Analyst-Organic (VIC)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Envirolab Services Pty Ltd ABN 37 112 535 645 - 002 25 Research Drive Croydon South VIC 3136 ph 03 9763 2500 fax 03 9763 2633 melbourne@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 27875

Client Details	
Client	Prensa
Attention	Ruchurne Smith
Address	Ground level, 5 Burwood Road, PO Box 6058, Hawthorn, VIC, 3122

Sample Details	
Your Reference	<u>98633M</u>
Number of Samples	1 Soil
Date samples received	23/09/2021
Date completed instructions received	23/09/2021

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data. Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details		
Date results requested by	01/10/2021	
Date of Issue	01/10/2021	
NATA Accreditation Number 2901.	This document shall not be reproduced except in full.	
Accredited for compliance with ISO	IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By Chris De Luca, Operations Manager Authorised By

Pamela Adams, Laboratory Manager

Envirolab Reference: 27875 Revision No: R00



Page | 1 of 13

Client Reference: 98633M

Our Reference		27875-1
Your Reference	UNITS	98633M_QC2
Date Sampled		21/09/2021
Type of sample		Soil
Date extracted		25/09/2021
Date analysed		25/09/2021
vTRH C6 - C9	mg/kg	<25
vTRH C6 - C10	mg/kg	<25
TRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total BTEX	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	93

Envirolab Reference: 27875 Revision No: R00 Page | 2 of 13

Client Reference: 98633M

TRH Soil C10-C40 NEPM	distant of the second	AND STATE AND
Our Reference		27875-1
Your Reference	UNITS	98633M_QC2
Date Sampled		21/09/2021
Type of sample		Soil
Date extracted		25/09/2021
Date analysed		25/09/2021
TRH C10 - C14	mg/kg	<50
TRH C15 - C28	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C10-C15	mg/kg	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50
TRH >C16-C34	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	87

Envirolab Reference: 27875 Revision No: R00 Page | 3 of 13

Page 563 ATTACHMENT B

Client Reference: 98633M

PAHs in Soil		
Our Reference		27875-1
Your Reference	UNITS	98633M_QC2
Date Sampled		21/09/2021
Type of sample		Soil
Date extracted	-	25/09/2021
Date analysed		26/09/2021
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d ₁₄	%	102

Envirolab Reference: 27875 Revision No: R00 Page | 4 of 13

Client Reference: 98633M

Metals in soil		TRACE SAND
Our Reference		27875-1
Your Reference	UNITS	98633M_QC2
Date Sampled		21/09/2021
Type of sample		Soil
Date digested	-	25/09/2021
Date analysed	-	27/09/2021
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	3
Copper	mg/kg	51
Lead	mg/kg	12
Mercury	mg/kg	<0.1
Molybdenum	mg/kg	<1
Nickel	mg/kg	11
Tin	mg/kg	<1
Selenium	mg/kg	<2
Silver	mg/kg	<1
Zinc	mg/kg	20

Envirolab Reference: 27875 Revision No: R00 Page | 5 of 13

Page 565 ATTACHMENT B

Client Reference: 98633M

Moisture	satusten sähi sa	LAND PROPERTY.
Our Reference		27875-1
Your Reference	UNITS	98633M_QC2
Date Sampled		21/09/2021
Type of sample		Soil
Date prepared	-	25/09/2021
Date analysed	-	27/09/2021
Moisture	%	17

Envirolab Reference: 27875 Revision No: R00 Page | 6 of 13

Client Reference: 98633M

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
	F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
	Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
	For soil results:-
	 'EQ PQL'values are assuming all contributing PAHs reported as <pql actually="" and="" approach="" are="" at="" be="" calculation="" can="" conservative="" contribute="" false="" give="" given="" is="" li="" may="" most="" not="" pahs="" positive="" pql.="" present.<="" teq="" teqs="" that="" the="" this="" to=""> 'EQ zero'values are assuming all contributing PAHs reported as <pql actually="" and="" approach="" are="" at="" below="" but="" calculation="" conservative="" contribute="" false="" is="" least="" li="" more="" negative="" pahs="" pql.="" pql.<="" present="" susceptible="" teq="" teqs="" that="" the="" this="" to="" when=""> 'EQ half PQL'values are assuming all contributing PAHs reported as <pql a="" above.<="" and="" approaches="" are="" between="" conservative="" half="" hence="" least="" li="" mid-point="" most="" pql.="" stipulated="" the=""> Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs. </pql></pql></pql>
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Envirolab Reference: 27875 Revision No: R00 Page | 7 of 13

Client Reference: 98633M

QUALITY CONT	ROL: vTRH	(C6-C10)/	BTEXN in Soil			Du	plicate	Terror	Spike Rec	overy %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			25/09/2021					25/09/2021	
Date analysed	-			25/09/2021					25/09/2021	
/TRH C6 - C9	mg/kg	25	Org-023	<25					92	
/TRH C6 - C10	mg/kg	25	Org-023	<25					92	
Benzene	mg/kg	0.2	Org-023	<0.2					96	
Foluene	mg/kg	0.5	Org-023	<0.5					95	
Ethylbenzene	mg/kg	1	Org-023	<1					85	
n+p-xylene	mg/kg	2	Org-023	<2					91	
-Xylene	mg/kg	1	Org-023	<1					86	
Naphthalene	mg/kg	1	Org-023	<1						
Surrogate aaa-Trifluorotoluene	%		Org-023	111					100	

Envirolab Reference: 27875 Revision No: R00 Page 8 of 13

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Client Reference: 98633M

QUALITY (CONTROL: TRI	I Soil C10	-C40 NEPM	in the second		Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			25/09/2021	in			11.0	25/09/2021	
Date analysed	-			25/09/2021	hel.		10	110	25/09/2021	
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50				-	98	
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	in.			mn,	89	
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100			- п	1.5	93	
TRH >C10 -C16	mg/kg	50	Org-020	<50	h-fi			100	98	
TRH >C16 -C34	mg/kg	100	Org-020	<100			11	0	89	
TRH >C34 -C40	mg/kg	100	Org-020	<100	114.00		1 II.	(mai	93	
Surrogate o-Terphenyl	%		Org-020	93	0.01			1	99	

Envirolab Reference: 27875 Revision No: R00 Page | 9 of 13

Client Reference: 98633M

QUAL	ITY CONTRO	L: PAHs i	in Soil			Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			25/09/2021					25/09/2021	
Date analysed				26/09/2021					26/09/2021	
Naphthalene	mg/kg	0.1	Org-022	<0.1					94	
Acenaphthylene	mg/kg	0.1	Org-022	<0.1					98	
Acenaphthene	mg/kg	0.1	Org-022	<0.1						
Fluorene	mg/kg	0.1	Org-022	<0.1					92	
Phenanthrene	mg/kg	0.1	Org-022	<0.1					94	
Anthracene	mg/kg	0.1	Org-022	<0.1						
Fluoranthene	mg/kg	0.1	Org-022	<0.1					92	
Pyrene	mg/kg	0.1	Org-022	<0.1					96	
Benzo(a)anthracene	mg/kg	0.1	Org-022	<0.1						
Chrysene	mg/kg	0.1	Org-022	<0.1					86	
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022	<0.2						
Benzo(a)pyrene	mg/kg	0.05	Org-022	<0.05					92	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022	<0.1						
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022	<0.1						
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022	<0.1						
Surrogate p-Terphenyl-d ₁₄	%		Org-022	100					102	

Envirolab Reference: 27875 Revision No: R00 Page | 10 of 13

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Client Reference: 98633M

	QUALITY CONTRO	L: Metal	s in soil		TRA	Du	plicate		Spike Re	covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			25/09/2021				1	25/09/2021	0.00
Date analysed	-		1 1	27/09/2021			n	110	27/09/2021	
Arsenic	mg/kg	4	Metals-020 ICP- AES	<4					· 90	
Cadmium	mg/kg	0.4	Metals-020 ICP- AES	<0.4			100	nut	92	i Dilli
Chromium	mg/kg	1	Metals-020 ICP- AES	<1			fi i	T	89	
Copper	mg/kg	1	Metals-020 ICP- AES	<1	ere.		10	1.1.	87	dĽ
Lead	mg/kg	1	Metals-020 ICP- AES	<1	in î		6.00		86	(⁶⁴⁴)
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1				1621	112	
Molybdenum	mg/kg	1	Metals-020 ICP- AES	<1			(F1)	1.1	91	,415,
Nickel	mg/kg	1	Metals-020 ICP- AES	<1	þun,		pit)	E IL CIT	88	PUL
Tin	mg/kg	1	Metals-020 ICP- AES	<1	èн I		811,		89	ALL,
Selenium	mg/kg	2	Metals-020 ICP- AES	<2	pin		Infi	mito,	86	= 2011
Silver	mg/kg	1	Metals-020 ICP- AES	<1	$\sim 1_{\pm}$		MG	6	88	백법
Zinc	mg/kg	1	Metals-020 ICP- AES	<1	19		- PO	-17	89	(T)

Envirolab Reference: 27875 Revision No: R00 Page | 11 of 13

Client Reference: 98633M

NT	Not tested	
NA	Test not required	
INS	Insufficient sample for this test	
PQL	Practical Quantitation Limit	
<	Less than	
>	Greater than	
RPD	Relative Percent Difference	
LCS	Laboratory Control Sample	
NS	Not specified	
NEPM	National Environmental Protection Measure	
NR	Not Reported	

Envirolab Reference: 27875 Revision No: R00 Page 12 of 13

Client Reference: 98633M

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
CS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
ustralian Drinking	Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than

activition Drinking water Guidelines recommend that Thermotolerant Conform, Paeca Enterococci, & E. Conferens are less than activition. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

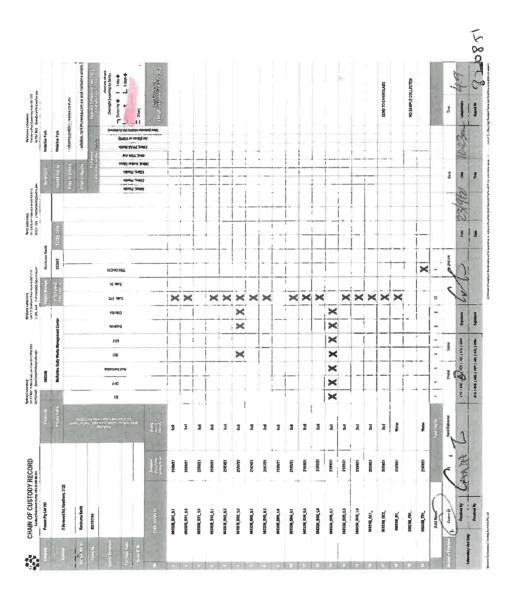
Measurement Uncertainty estimates are available for most tests upon request.

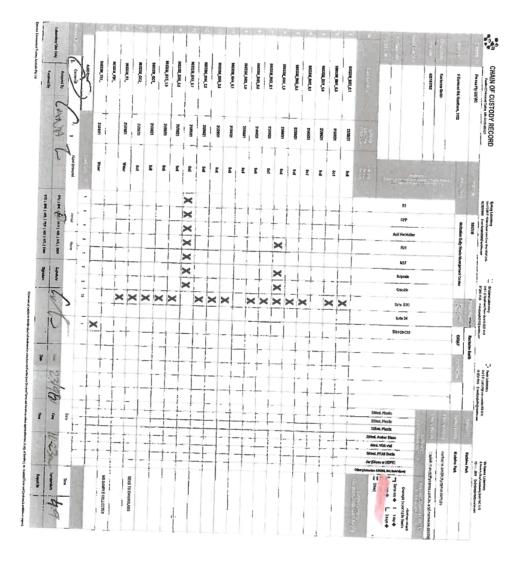
Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Reference: 27875 Revision No: R00 Page | 13 of 13







to the

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(r)

Mail - #AU_CAU001_EnviroSampleVic - Outlook

<mos.niforu@oite@nilebem</p>

RE: Supplies for Hobart

1202/12/6

🗍 1 attachments (53 KB)

<mos.coms@eurofins.com><mos.com>

Prensa - McRobies Gully COC.XLSM;

 Aus.moo.senant@dfime.senuhour> dfim2 senuhou8 M9 74:8 1202/00/15 aut

PRIVILEGED - PRIVATE AND CONFIDENTIAL property > environment > safety > ≬brênsa≬

Phone: (03) 9508 0100 | Mobile: 0422161785 Postal Address: PO Box 6058, Hawthorn West VIC 3122 Office: 5 Burwood Rd, Hawthorn VIC 3122

*JIAMB JAN83TX3

Subject: RE: Supplies for Hobart

moo.anitorue@aileos8ymeH : lism3

Mobile: +61 438 858 924 Phone: +61 3 8564 5064

silese8 YhteH

Kind regards,

Τhanks Ru7churne

Thanks mate, Attached

To: Ruchurne Smith <<u>ruchurne.enth@prense.com.au</u>>

From: Harry Bacalis [mailto:HarryBacalis@eurofins.com]

Sent: Tuesday, 21 September 2021 3:01 PM

us.moo.esnang.www.ideW | us.moo.esnang@diimz.annudoun :lism3

Ruchurne Smith | Senior HSE Consultant | Prensa Pty Ltd

cue.moo.esnərk@prens.com.au> الماقطوانne.park@prensa.com.au> <mos.sniforus@eilese8vineH> eilese8 אפריסfines.com Sent: Tuesday, 21 September 2021 3:40 PM

Lecmos.com.smith@prensa.com.au>Huchurne.smith@prensa.com.au>

Canh – e-COC attached, these will be coming from Hobart overnight.

د.، اعلام Hark 'دینا داغلام Aario 'دینا المان الم

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pase of the sender does not give any warrander not accept any fighting in relation to any of these matters. If you have any doubts about the authenticity of an e-mail purportedly sent by us, please E-moli transmission cannot be stored to be secure or error-free and e-moli may be interfered with, may contain computer viruses or other calects and way not be successfully replicated on other

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10/12/2021

Mail - #AU_CAU001_EnviroSampleVic - Outlook

RE: Eurofins Test Results, Invoice - Report 826851 : Site McRobies Gully Waste Management Center (98633M)

Ruchurne Smith <ruchurne.smith@prensa.com.au> Tue 12/10/2021 12:09 PM

To: Harry Bacalis <HarryBacalis@eurofins.com>

Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>

EXTERNAL EMAIL*

Hey mate,

Can I get sample \$8633M_BH1_1.0 analysed for PAH on a same day analysis turnaround if possible please.

Cheers

Ruchurne Smith | Senior HSE Consultant | Prensa Pty Ltd

Office: 5 Burwood Rd, Hawthorn VIC 3122 Postal Address: PO Box 6058, Hawthorn West VIC 3122 Phone: (03) 9508 0100 | Mobile: 0422161785 Email: ruchurne.smith@prensa.com.au | Web: www.prensa.com.au



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EF 12/10 12.09

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From: Ruchurne Smith [mailto:ruchurne.smith@prensa.com.au] Sent: Thursday, 7 October 2021 1:19 PM To: 'HarryBacalis@eurofins.com' <HarryBacalis@eurofins.com> Cc: '#AU_CAU001_EnviroSampleVic' <EnviroSampleVic@eurofins.com> Subject: RE: Eurofins Test Results, Invoice - Report 826851 : Site McRobies Gully Waste Management Center (98633M)

Hi Harry,

Can I get ASLP analysis on a 3 day TAL for the following please.

PAH – can I get the low detection limit for BaP please 98633M_BH1_0.5 98633M_BH3_0.1 98633M_BH3_0.5 98633M_BH5_0.5

Cheers

Ruchurne Smith | Senior HSE Consultant | Prensa Ptv Ltd

10/7/2021

Mail - #AU_CAU001_EnviroSampleVic - Outlook

RE: Eurofins Test Results, Invoice - Report 826851 : Site McRobies Gully Waste Management Center (98633M)

Harry Bacalis <HarryBacalis@eurofins.com> Thu 7/10/2021 1:23 PM To: Ruchurne Smith <ruchurne.smith@prensa.com.au> Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com> Thanks Ruchurne

Cann - 3 DAY TAT - B(a)P LL

Kind regards,

Harry Bacalis Phone: +61 3 8564 5064 Mobile: +61 438 858 924 Email : <u>HarryBacalis@eurofins.com</u>

From: Ruchurne Smith <ruchurne.smith@prensa.com.au>
Sent: Thursday, 7 October 2021 1:19 PM
To: Harry Bacalis <HarryBacalis@eurofins.com>
Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>
Subject: RE: Eurofins Test Results, Invoice - Report 826851 : Site McRobies Gully Waste Management Center
(98633M)

St46939 - GT1178 - FG101

351 830197 7 L.Buypti

5 246944 -5 246945 -5 246950 -

EXTERNAL EMAIL*

Hi Harry,

Conliget ASLP analysis on a 3 day TAT for the following please.

PAH – can I get the low detection limit for BaP please 98633M_BH1_0.5 98633M_BH3_0.1 98633M_BH3_0.5 98633M_BH5_0.5

Cheers

Ruchurne Smith | Senior HSE Consultant | Prensa Pty Ltd

Office: 5 Burwood Rd, Hawthorn VIC 3122 Postal Address: PO Box 6058, Hawthorn West VIC 3122 Phone: (03) 9508 0100 | Mobile: 0422161785 Email: ruchurne.smith@grensa.com.au | Web: www.grensa.com.au



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Planning: #237412

Property

30 MCROBIES ROAD SOUTH HOBART TAS 7004

People

Applicant						
*						
TIIFRENO BUILDERS						
PO Box 302						
PO Box 302						
GLENORCHY TAS 7010						
0402916957						
admin@tiifrenobuilders.com.au						
_						
Owner						
*						
HOBART CITY COUNCIL						
50 MACQUARIE STREET						
HOBART TAS 7000						
62382860						
coh@hobartcity.com.au						
Entered By						
JOHN BROOKS						
0408 122 682						
admin@tiifrenobuilders.com.au						

Use

Other

Details

Have you obtained pre application advice?

• Yes

If YES please provide the pre application advice number eg PAE-17-xx

PAE-21-176

Are you applying for permitted visitor accommodation as defined by the State Government Visitor Accommodation Standards? Click on help information button for definition. If you are not the owner of the property you MUST include signed confirmation from the owner that they are aware of this application.

• • • No

Is the application for SIGNAGE ONLY? If yes, please enter \$0 in the cost of development, and you must enter the number of signs under Other Details below.

*	•						
• No							
If this application is related to	If this application is related to an enforcement action please enter Enforcement Number						
Details							
What is the current approved	What is the current approved use of the land / building(s)?						
Waste Site							
Please provide a full descrip swimming pool and garage) *	Please provide a full description of the proposed use or development (i.e. demolition and new dwelling, swimming pool and garage)						
The replacement of the bin	shed will be used	d for the stora	ge of recyclable	materials			
Estimated cost of developme	ent						
120000.00							
Existing floor area (m2)		ed floor area (m2)	Site area (m2	2)		
200.00	200.00			300			
Carparking on Site							
			N/A				
Total parking spaces	Existing parking	g spaces	Other (no se	election			
50	50		chosen)				
Other Details							
Does the application include	signage?						
No							
How many signs, please ent involved in this application?	er 0 if there are	none					
0							
Tasmania Heritage Reg Is this property on the Tasm Register?		• No					
Documents							
Required Documents							
Title (Folio text and Plan and	d Schedule of Eas	sements)			-22		
* FolioText-126957-1.pdf							
Plans (proposed, existing)							
* FolioPlan-126957-1.pdf							
Supporting Documents	6						
Architectural Description							
Form 35 TAS - 310725 Gler Form 35	_mattened.pdf						
Form 35 TAS - 310725 Gler	_flattened.pdf						

Page 580 ATTACHMENT B



RESULT OF SEARCH

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980



SEARCH OF TORRENS TITLE

VOLUME	FOLIO
126957	1
EDITION	DATE OF ISSUE
2	24-Jun-2015

SEARCH DATE : 21-Jul-2021 SEARCH TIME : 12.49 PM

DESCRIPTION OF LAND

City of HOBART Lot 1 on Plan 126957 Derivation : Part of 2660 Acres Gtd to J Allport & Anor and Part of 2000 Acres Gtd to P Degraves Prior CT 114735/1

SCHEDULE 1

A454296 HOBART CITY COUNCIL

SCHEDULE 2

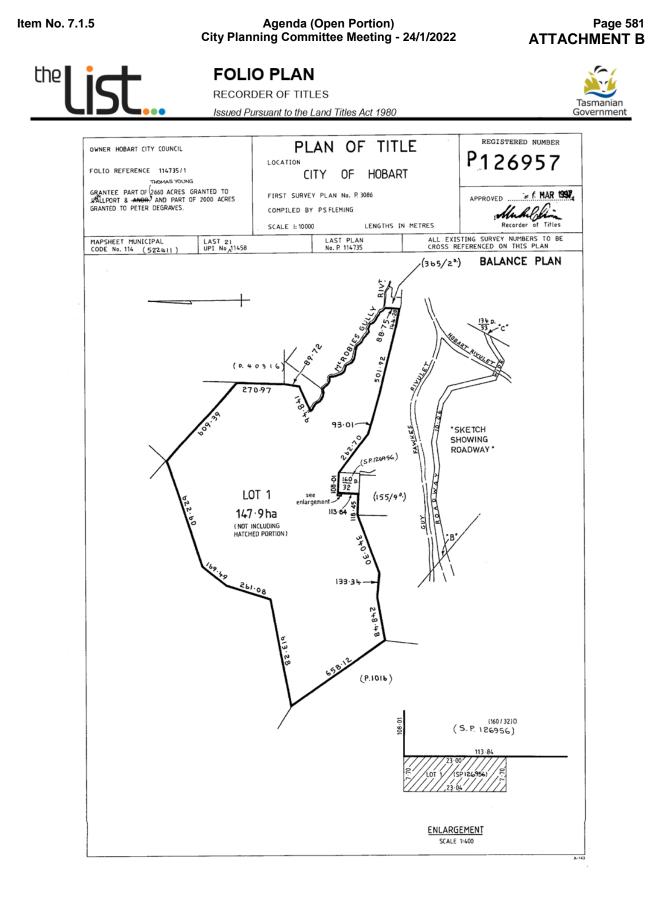
Reservations and conditions in the Crown Grant if any BENEFITING EASEMENT a right of carriageway over the roadway 10. 06 wide marked B.C. on Plan No. 126957 A454297 INSTRUMENT creating covenants

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Department of Primary Industries, Parks, Water and Environment

Page 1 of 1 www.thelist.tas.gov.au



 Search Date: 21 Jul 2021
 Search Time: 12:50 PM
 Volume Number: 126957
 Revision Number: 01
 Page 1 of 1

 Department of Primary Industries, Parks, Water and Environment
 www.thelist.tas.gov.au



Enquiries to: City Planning Phone: (03) 6238 2715 Email: coh@hobartcity.com.au

9 August 2021

Allison Bradburn (Tiifreno Builders) C/- 30 McRobies Road SOUTH HOBART TAS 7000 mailto: Admin@tiifrenobuilders.com.au

Dear Sir/Madam

30 MCROBIES ROAD, SOUTH HOBART - WORKS ON COUNCIL LAND NOTICE OF LAND OWNER CONSENT TO LODGE A PLANNING APPLICATION - GMC-21-48

Site Address:

30 McRobies Road, South Hobart

Description of Proposal:

Outbuilding (Storage Shed) / Works on Council Land

Applicant Name:

Allison Bradburn Tiifreno Builders

PLN (if applicable):

PLN-21-492

I write to advise that pursuant to Section 52 of the *Land Use Planning and Approvals Act 1993*, I grant my consent on behalf of the Hobart City Council as the owner/administrator of the above land for you to make application to the City for a planning permit for the development described above and as per the attached documents.

Please note that the granting of the consent is only for the making of the application and in no way should such consent be seen as prejudicing any decision the Council is required to make as the statutory planning authority.

Hobart Town Hall 50 Macquarie Street Hobart TAS 7000 Hobart Council Centre 16 Elizabeth Street Hobart TAS 7000 City of Hobart GPO Box 503 Hobart TAS 7001 T 03 6238 2711 F 03 6234 7109 E coh@hobartcity.com.au W hobartcity.com.au f CityofHobartOfficial

ABN 39 055 343 428 Hobart City Council This consent does not constitute an approval to undertake any works and does not authorise the owner, developer or their agents any right to enter or conduct works on any Council managed land whether subject to this consent or not.

If planning approval is granted by the planning authority, you will be required to seek approvals and permits from the City as both landlord, land manager, or under other statutory powers (such as other legislation or City By-Laws) that are not granted with the issue of a planning permit under a planning scheme. This includes the requirement for you to reapply for a permit to occupy a public space under the City's Public Spaces By-law if the proposal relates to such an area.

Accordingly, I encourage you to continue to engage with the City about these potential requirements.

Yours faithfully

Whytun

(Kelly Grigsby)

Chief Executive Officer being the General Manager as appointed by Council pursuant to section 61 of the Local Government Act 1993 (Tas)

Relevant documents/plans:

Plans - ShedTech 310725

Hobart Town Hall 50 Macquarie Street Hobart TAS 7000 Hobart Council Centre 16 Elizabeth Street Hobart TAS 7000 City of Hobart GPO Box 503 Hobart TAS 7001 T 03 6238 2711 F 03 6234 7109 E coh@hobartcity.com.au W hobartcity.com.au **f** CityofHobartOfficial

ABN 39 055 343 428 Hobart City Council

MC-21-48 09/08/202 CERTIFICAT	E OF THE RESPONSIBLE DESIG	NER	Section 94 Section 106 Section 129 Section 155	
To:	TIFRENO BUILDERS - Glen	Owner name	OF	
	28 Mcrobies Rd	Address	Form 35	
	South Hobart TAS 7004	Suburb/postcode		
Designer detai	ls:			
Name:	John L Towler	Category:	Structural Eng.	
Business name:		Phone No:	(07) 3808 8118	
Business address:	PO Box 783			
	Gympie QLD 4570	Fax No:		
Licence No:	CC4011J Email engineeri	ng@shedtech.co	om.au	
Details of the p	proposed work:			
Owner/Applicant	TIFRENO BUILDERS - Glen	Designer's projet reference No.	° ^t 310725.C01	
Address:	28 Mcrobies Rd	Lot No:		
	South Hobart TAS 7004	-		
Type of work:	Building work ×	Plumbing work	(X all applicable	
Description of wo				
	a d Portal Frame Shed Design Work (Scope, limitations or exclusion	add re- we sto on- ma bad	w building / alteration / dition / repair / removal / erection ater / sewerage / imwater / -site wastewater inagement system / ckflow prevention / other certificates)	
Certificate Type:		Responsible Prac		
continuate type:		Architect or Buildin	ng Designer	
	Structural design	Engineer or Civil D	esigner	
		Fire Engineer		
		Civil Engineer or C		
		Building Services I		
		Building Services I Building Services I		
		Building Services D		
	Mechanical design	Sanding Service D		
	Plumbing design		Architect, Building	
	Plumbing design	Plumber-Certifier; Designer or Engin	-	

Director of Building Control - date approved: 2 August 2017

Deemed-to-Satisfy:

n: (X the appropriate box) Building Act 2016 - Approved Form No 35

Performance Solution:

Mar Mar	pproved - General n ager Consent Only IC 9the r8 details /2021	-					
CIUM HOBART (GIV	10-21-40-09/00/2021						
	Design docume	ants provide	4·				
			ed with this Certificate	9 —			
	Drawing Numbers:		Prepared by:		D	ate:	
	Gable Shed SH2009-07 SH2009-08 STSD-01.2 STSD-02 STSD200-02 STSD150-01		ShedTech ShedTech ShedTech ShedTech ShedTech ShedTech		20 10	8/03/2018 0/09/2012 0/02/2015 0/11/2017	
		Elevations, Col	rence # 310725): Wir umn and Mullion Loc				
	Schedules:		Prepared by:		D	ate:	
	Specifications:		Prepared by:		Da	ate:	
	Computations:		Prepared by:		Da	ate:	
	Performance solution	on proposals:	Prepared by:		D	ate:	
	Test reports:		Prepared by:		Da	ate:	
Standards, code process:		es or guideli	ines relied on in	design			
	AS 1170.1 Perm AS 1170.4 Earth AS 4100 Steel AS 4600 Cold AS 2870 Resid	eral Principals (2 aanent & Other A quake Loads (2 Structures Cod Formed Section fential Slabs and Load (2011)	Actions (2002) 007) e (1998)				
	Any other relev Error! Reference s				12 23		
	Attribution as designer:						
	I am responsible for the design of that part of the work as described in this certificate.						
	The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the <i>Building Act 2016</i> and sufficient detail for the builder or plumber to carry out the work in accordance with the documents and the Act;						
	This certificate confin National Constructio		and is evidence of si	uitability of this	design with the r	equirements of the	
	Designer:	Nai	me: (print)	John	Signed Jow	Date	
Ĩ	Director of Building Control	- date approved: 2 A	August 2017	0	Building Act 2016	Approved Form No 35	

Assessment of Certifiable Works: (TasWater)
Note: single residential dwellings and outbuildings on a lot with an existing sewer connection are not considered to increase demand and are not certifiable.
If you cannot check ALL of these boxes, LEAVE THIS SECTION BLANK.
TasWater must then be contacted to determine if the proposed works are Certifiable Works.
I confirm that the proposed works are not Certifiable Works, in accordance with the Guidelines fo TasWater CCW Assessments, by virtue that all of the following are satisfied:
The works will not increase the demand for water supplied by TasWater
The works will not increase or decrease the amount of sewage or toxins that is to be removed by, or discharged into, TasWater's sewerage infrastructure
The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure
The works will not damage or interfere with TasWater's works
The works will not adversely affect TasWater's operations
The work are not within 2m of TasWater's infrastructure and are outside any TasWater easement
I have checked the LISTMap to confirm the location of TasWater infrastructure
If the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: <u>www.taswater.com.au</u>

	Name: (print)	Signed	Date
Designer:			25/06/2021

Director of Building Control - date approved: 2 August 2017

Building Act 2016 - Approved Form No 35



Portal Garage/Shed Specifications

Site Address:	28 Mcrobies Rd, South Hobart, TAS 7004, Australia
Dimensions:	10.0 m Wide × 20.0 m Long with a 4.5 m average roof height (-58.6° Orientation)
NCC Compliance:	This shed has been designed with restricted internal pressures, Cpi = +0.2 & -0.3. Roller door supply must comply with AS4505

Site Location

The following map, obtained from Google Maps Imagery (©2021 Google), shows the site location:



Wind Load (AS/NZS 1170.2:2011)

The following table summarizes the wind parameters for this site:

Parameter	N	NE	E	SE	S	SW	W	NW
Importance Level				2 (1:50	0 Wind)			
Wind Region	1			A3 (V, =	45 m/s)			
Wind Directional Multiplier M _d	0.85	0.80	0.80	0.80	0.80	0.85	0.90	1.00
Terrain Category	2.29	2.06	2.50	2.26	2.35	2.00	2.00	2.03
Terrain/height Multiplier Mz,cat	0.89	0.91	0.87	0.89	0.88	0.91	0.91	0.91
Shielding Multiplier Ms	0.90	0.83	0.84	1.00	1.00	1.00	1.00	1.00
Topographic Multiplier Mt	1.00	1.16	1.03	1.13	1.13	1.15	1.15	1.00
Site Wind Speed V _{sit,B}	31.34	31.50	30.00	37.12	37.12	40.16	42.52	40.95
Ultimate Design Wind Speed V_{des}			4	2.52 m/s	(1.08 kP	a)		
Service Design Wind Speed V.			3	3.03 m/s	(0.65 kP	a)		

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5.28 / 5.29

Page 1 of 2

Approved - General Manager Consent Only Cityor HOBART CITY 21 CALL CONSTRUCT AND CITYON AND CITYON

The following site map shows the site in relation to the terrain category boundary (©2021 Google):

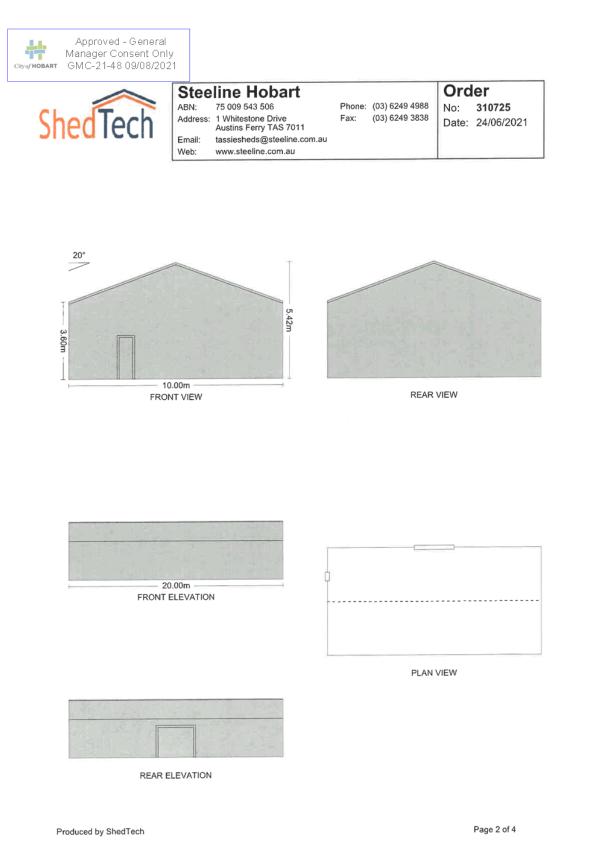


Shielding Map

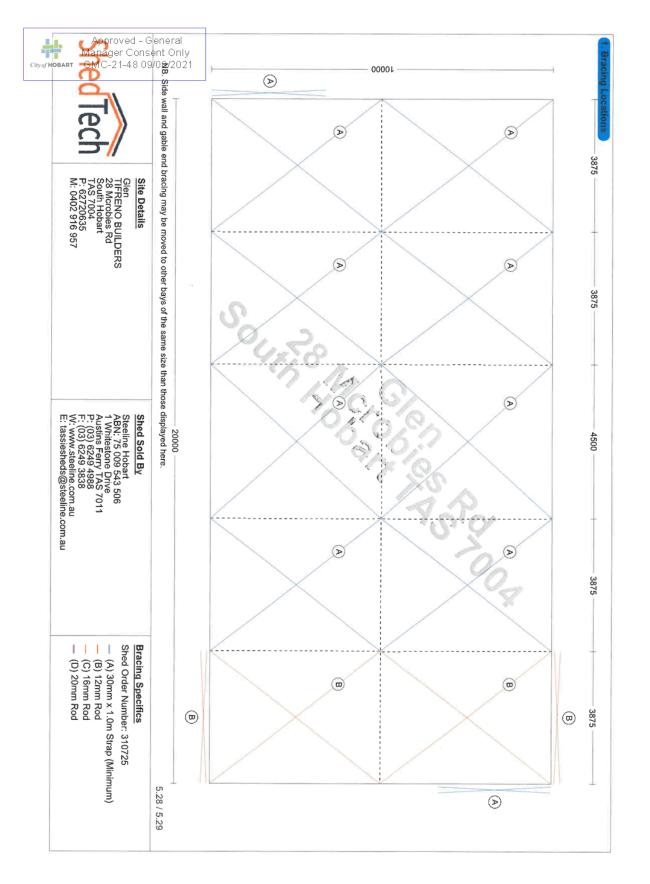
The following site map shows the site in relation to the shielding boundary (©2021 Google):

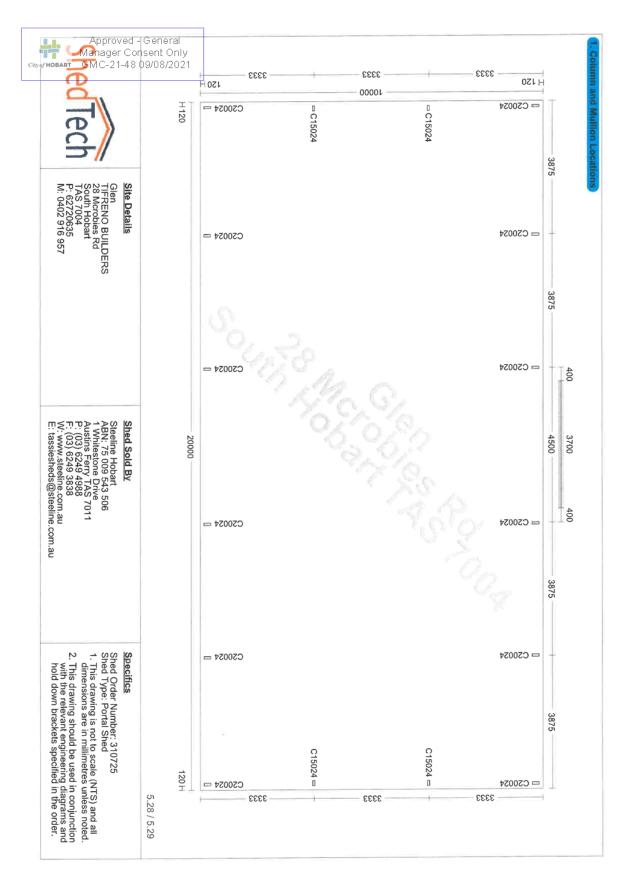


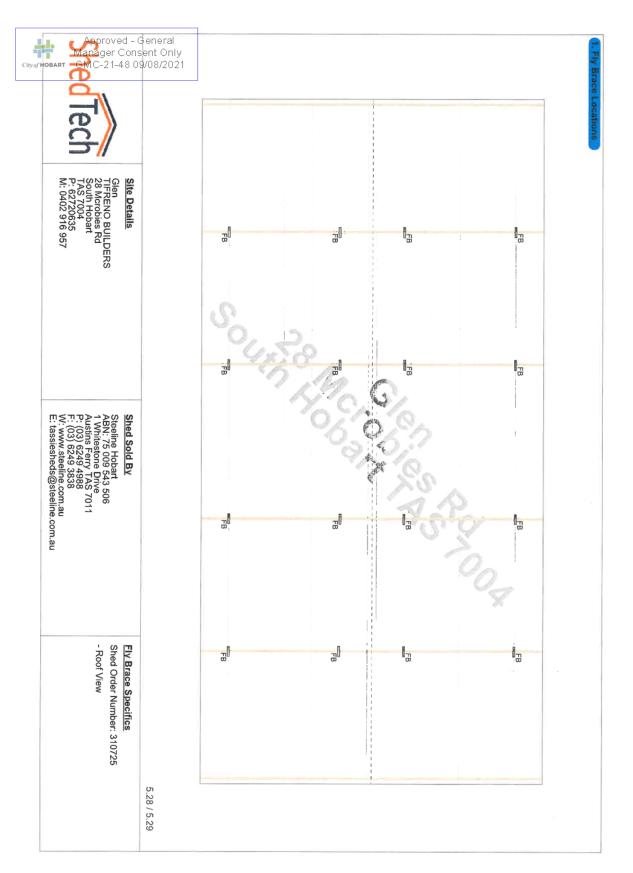
I certif	y that the shed kit compone	ents listed below are structurally adequate for their purpose. This document takes prece
	elections from tables in the	
Signe	d:	Date: 25 June 2021
	Customer Details:	
	Customer Name:	TIFRENO BUILDERS - Glen
	Site Address:	28 Mcrobies Rd South Hobart TAS 7004
	Building Specificatio	ns:
	Length:	20.00m
	Width: Height:	10.00m 3.60m
	Building Style:	Portal Frame Shed
	Roof Style:	Gable / Skillion
	Roof Pitch:	10 °
	Roof Cladding:	Corrugated 0.42 BMT
	Roof Screws:	14 - 10 x 50 SDM Hex Seal Steelclad 0.42 BMT
	Wall Cladding: Wall Screws:	10 – 16 x 16 Hex
	Roller-Doors:	1 x Series "AA" Windlocked Roller-Door (3000 x 3700)
	P/A Doors:	1 x Personal Access Door (2040 x 820)
	Windows: Wall Insulation:	N/A
	Full Coverage:	Foil Sisalation (60m) Type 456 Safety Mesh (2mm)
	End Portal Frame:	C20024
	Internal Portal Frame:	C20024
	Knee Braces:	N/A
	Apex Braces	N / A
	Roof Purlin Type: Max Purlin Spacing:	TopHat 120mm 1.20 BMT 866mm
		TopHat 120mm 1.20 BMT
	Wall Girt Type:	
	Wall Girt Type: Max Girt Spacing:	1050mm
	Max Girt Spacing:	1050mm



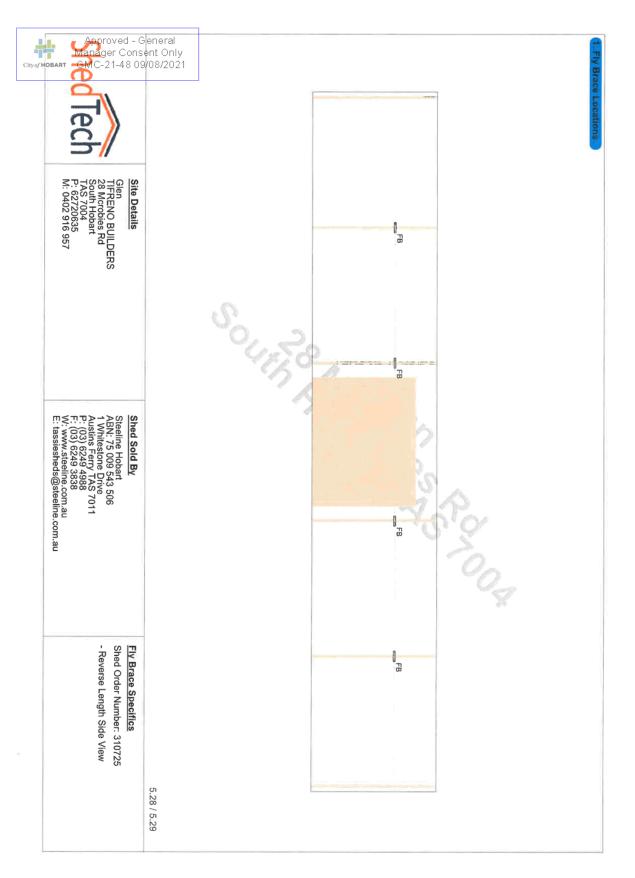
Page 591 ATTACHMENT B

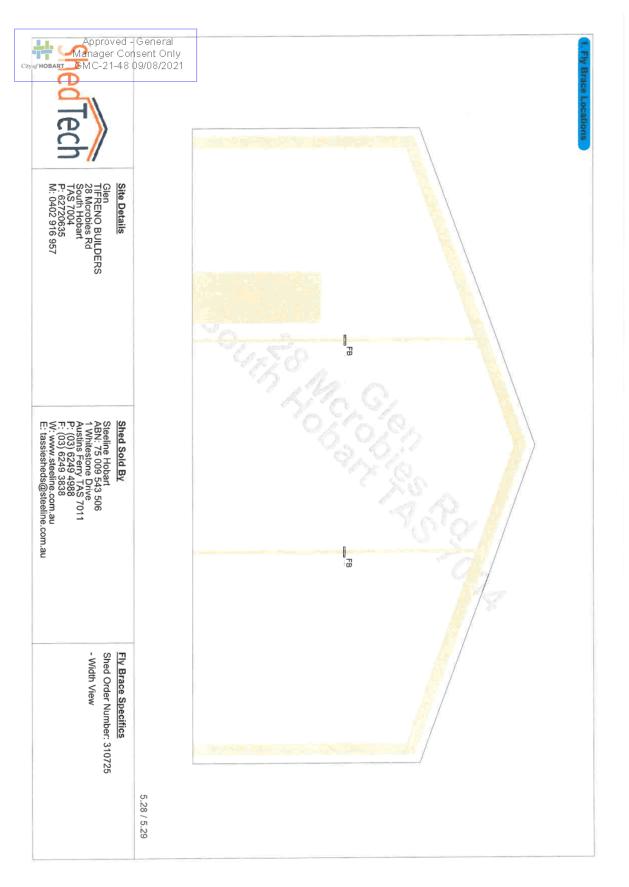




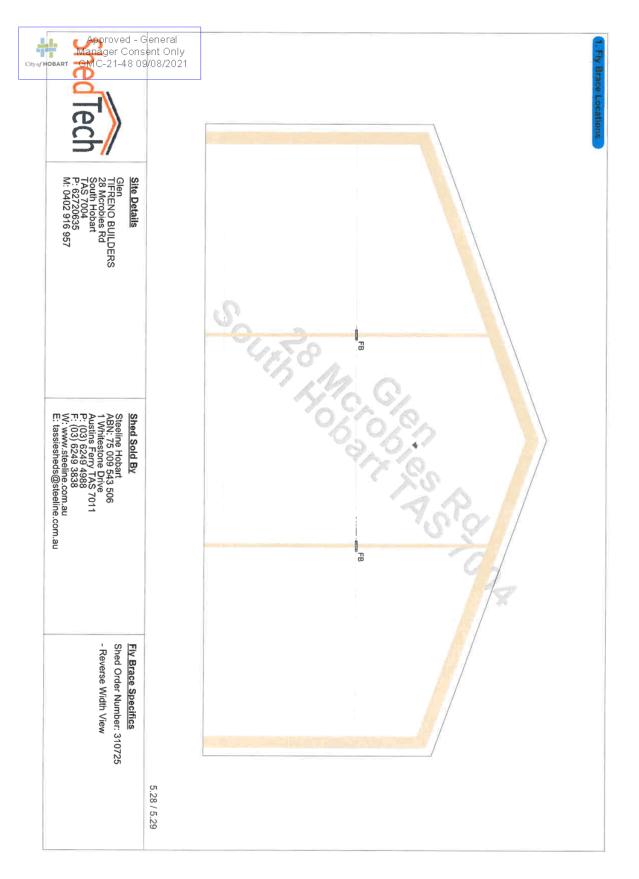


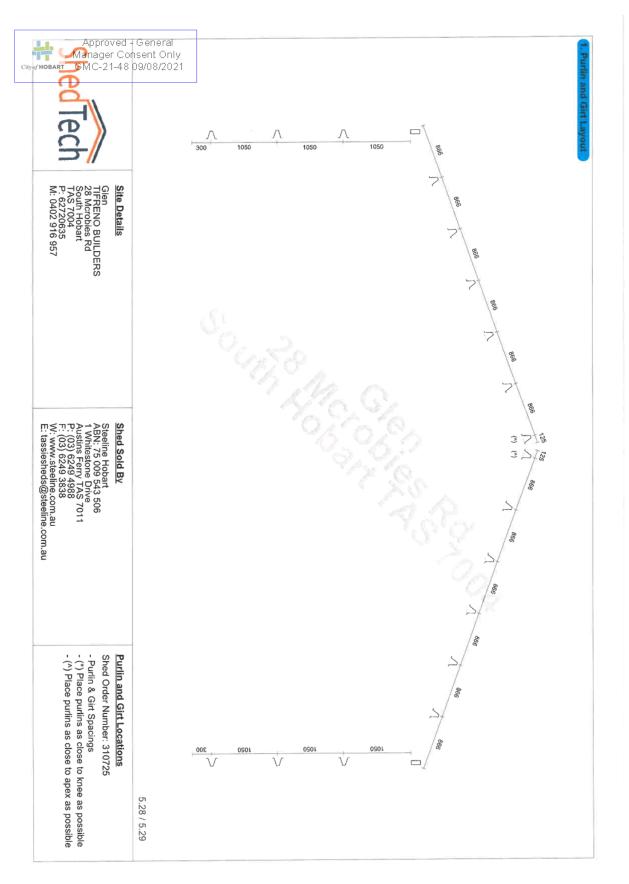




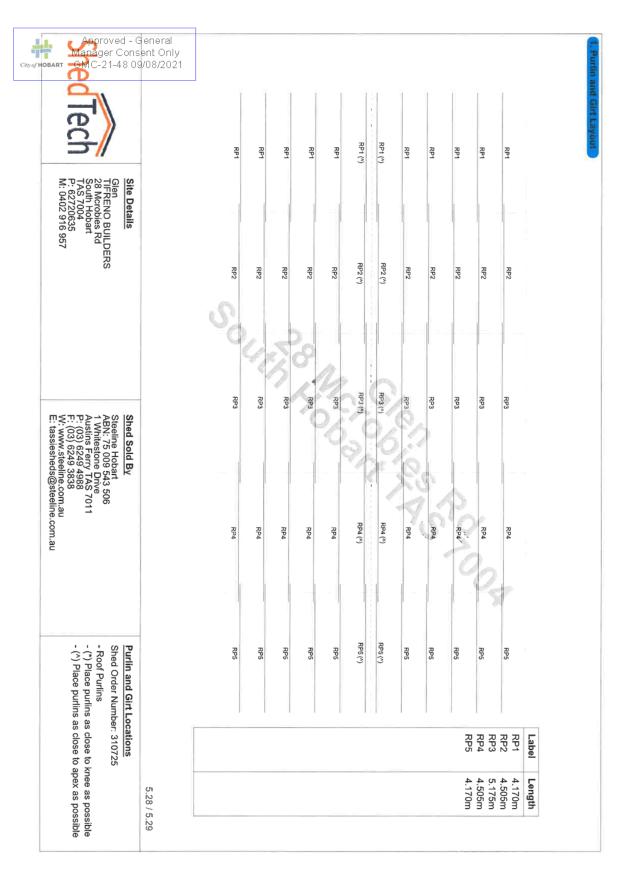


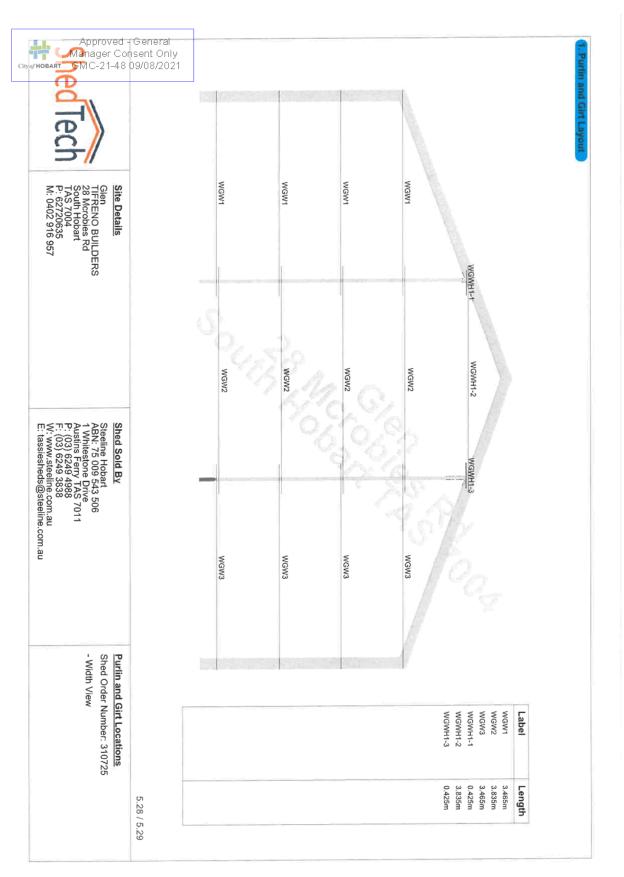






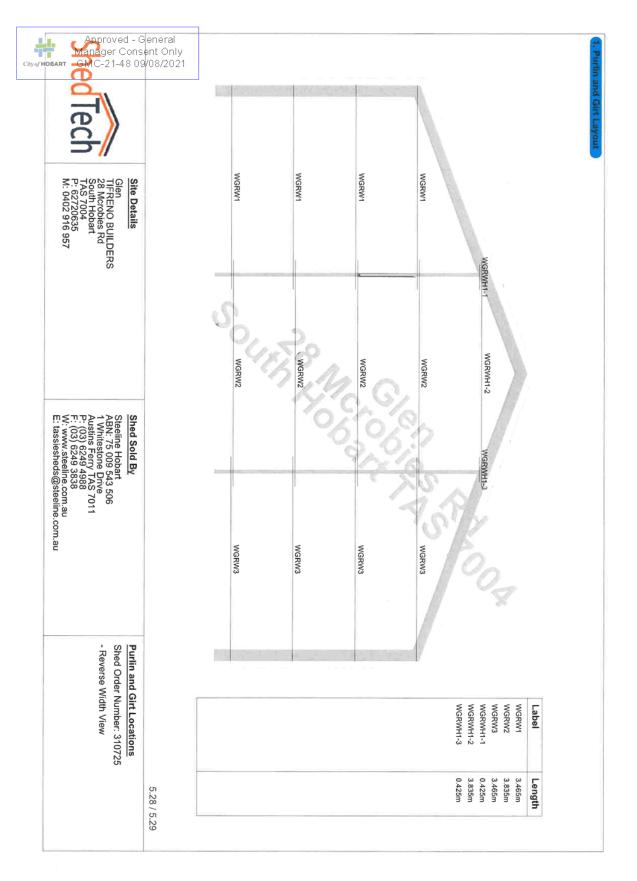




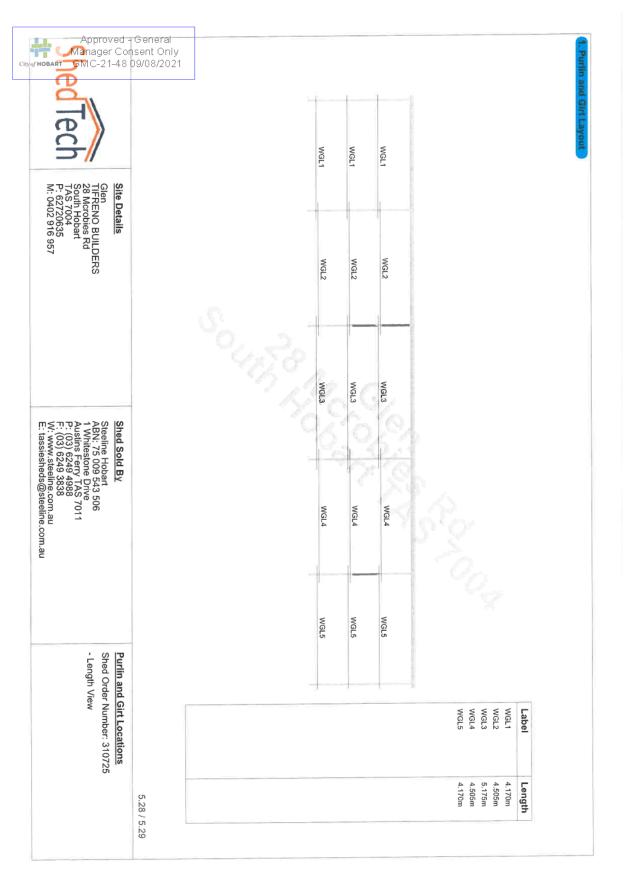


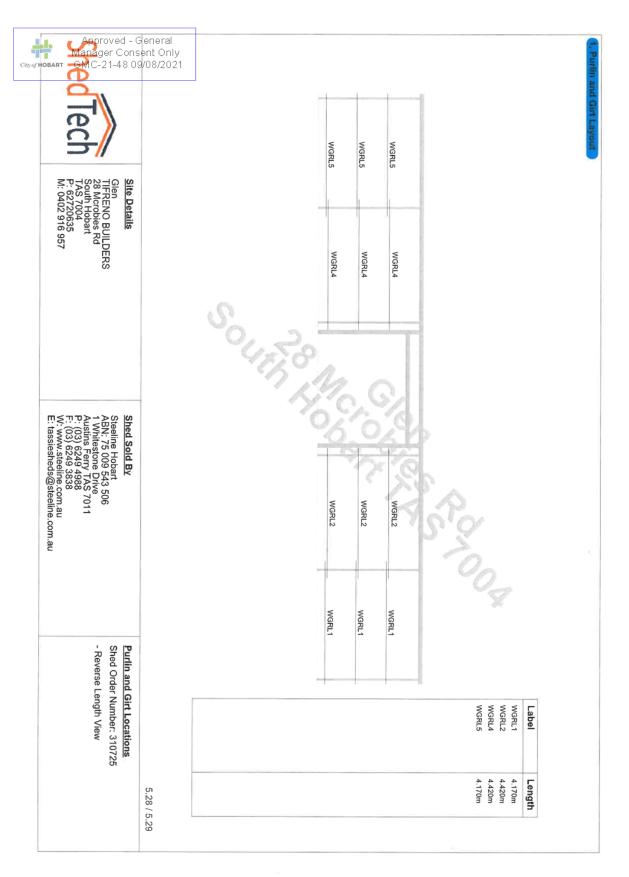
Item No. 7.1.5



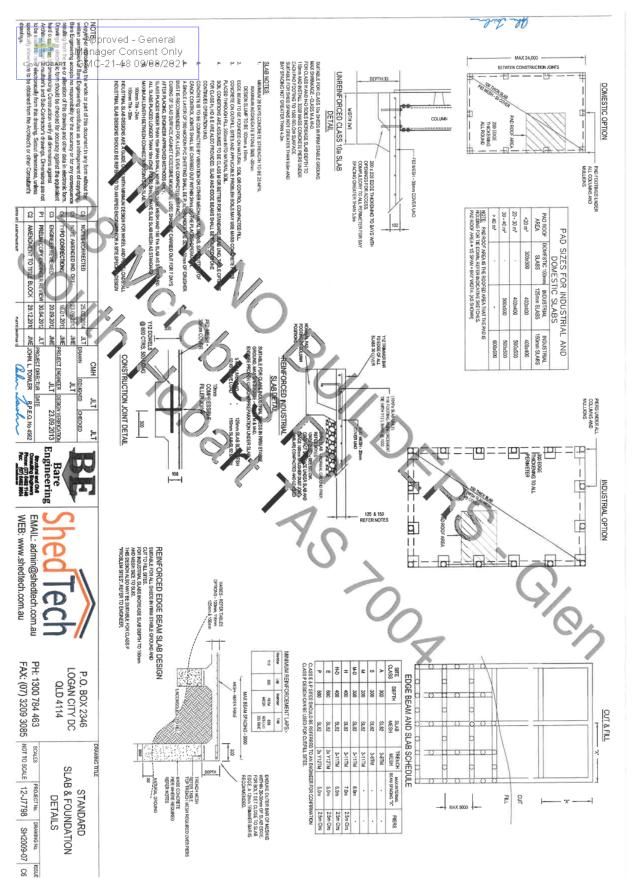


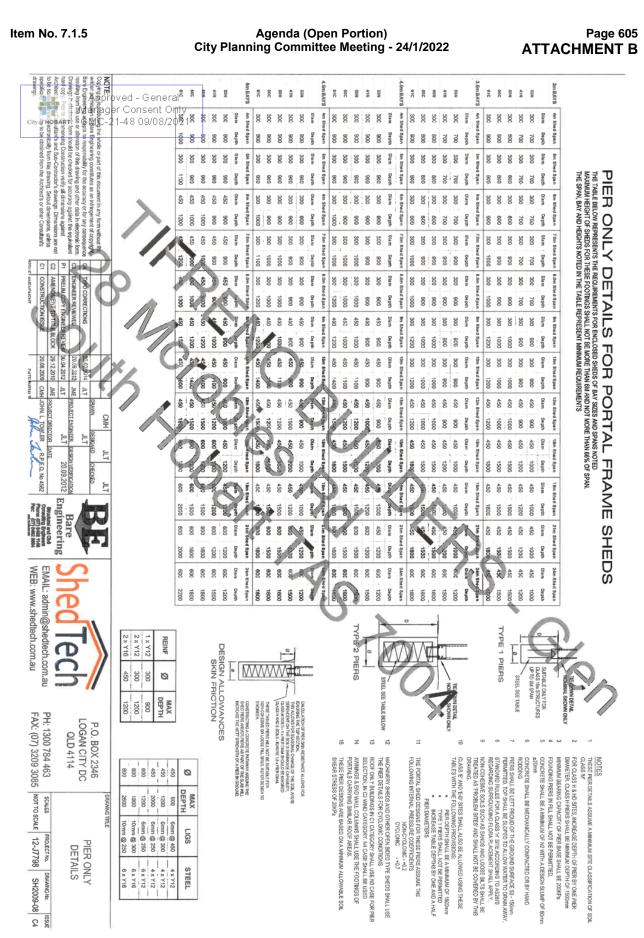


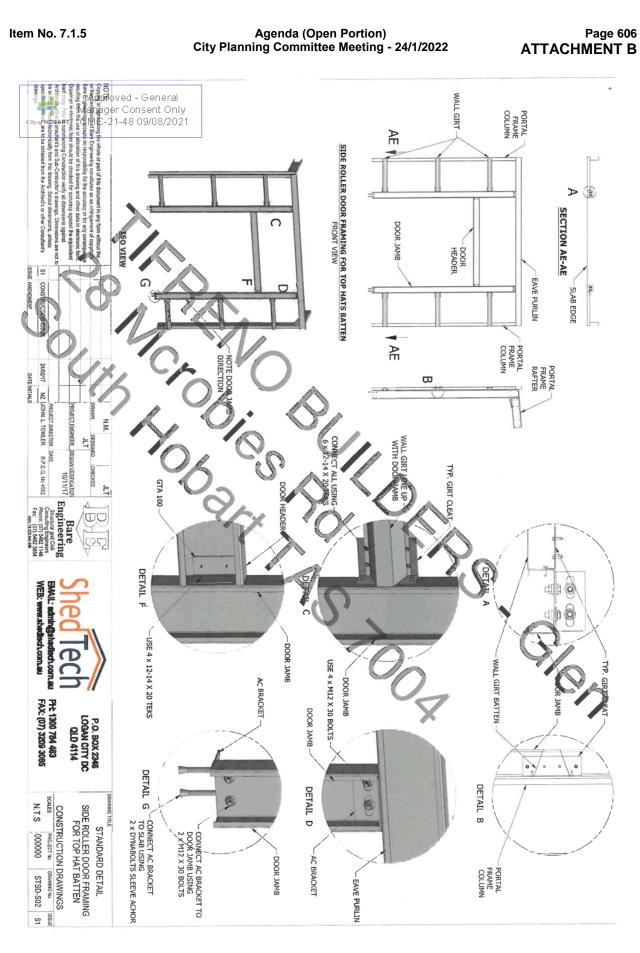


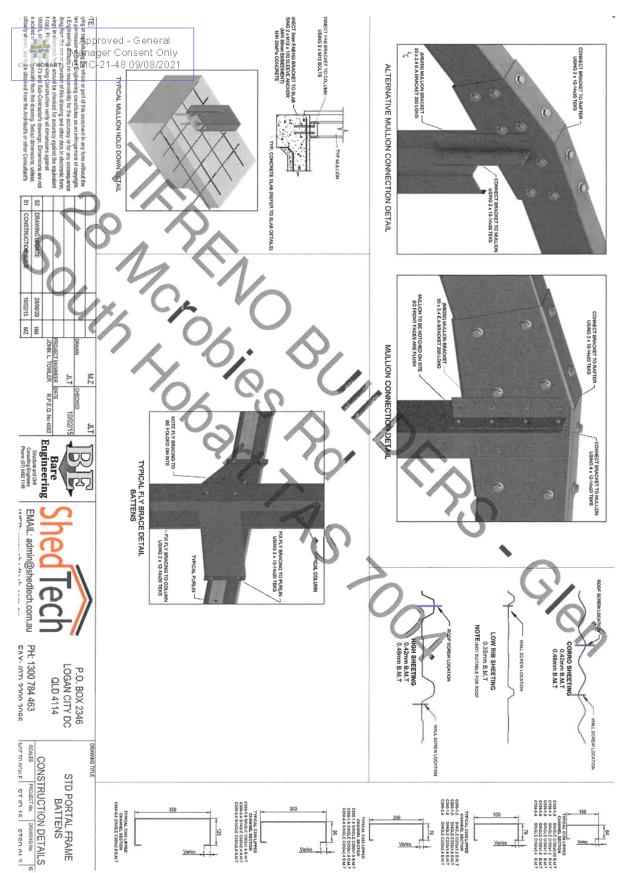


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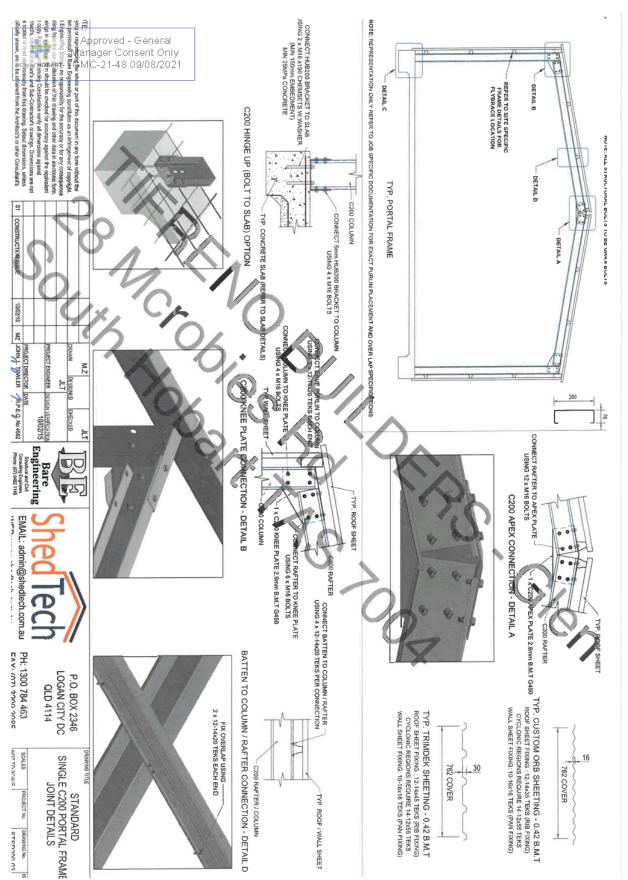


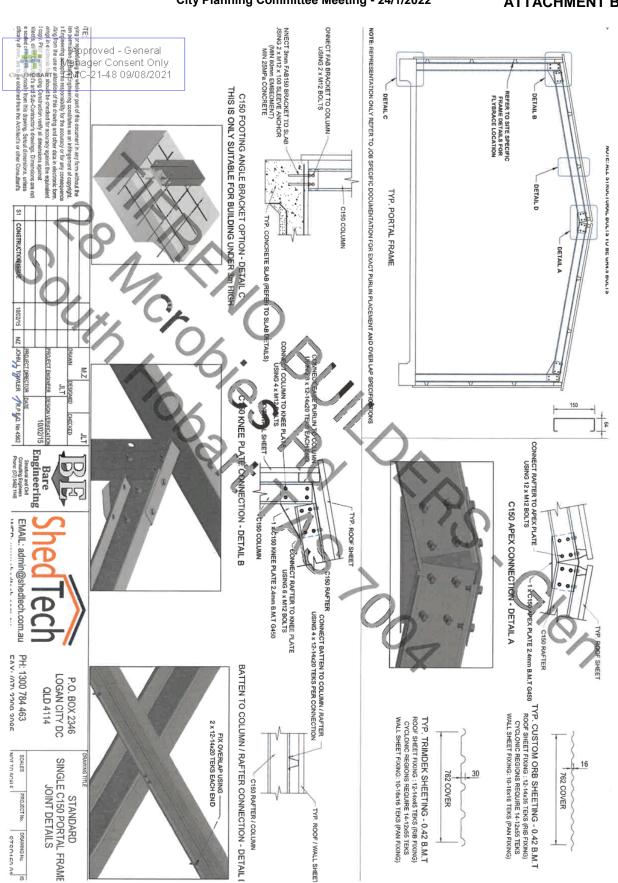






Item No. 7.1.5





Page 609 ATTACHMENT B

Application Referral Environmental Development Planner - Response

From:	Rowan Moore Environmental Development Planner 7 December 2021
Recommendation:	Proposal is acceptable subject to conditions.
Date Completed:	
Address:	30 MCROBIES ROAD, SOUTH HOBART
Proposal:	Outbuilding (Storage Shed)
Application No:	PLN-21-492
Assessment Officer:	Mark O'Brien,

Referral Officer comments:

Codes Applicable:

Code	Applicable	Exempt	Permitted	Discretionary
E1.0 Bushfire-	No			
Prone Areas				
E3.0 Landslide	Yes	No	No	Yes - E3.7.1 P1
E9.0	Yes	No	Yes - E9.7.1 A1	
Attenuation				
E10.0	No			
Biodiversity				
E11.0 Waterway	Yes	No	No	Yes - E11.7.1 P1
& Coastal				
E15.0 Inundation	No			
Prone Areas				
E16.0 Coastal	No			
Erosion				
E18.0 Wind &	No			
Solar Energy				
E20.0 Acid	No			
Sulfate Soils				

Assessment:

Approval is sought for a 200m² storage shed for storage of recyclables at McRobies Gully Waste Management Centre. The shed would be located in a location previously occupied by a similar shed that was demolished due to fire damage.



Image 1: Location of proposed shed (note that building in image has been demolished)

Referral to the EPA Board is not require as the development is ancillary to the waste depot.

Landslide Code

The Landslide code applies because development is proposed within a Landslide Hazard Area (Low LHA). This LHA is due to a modelled susceptibility to debris flow.

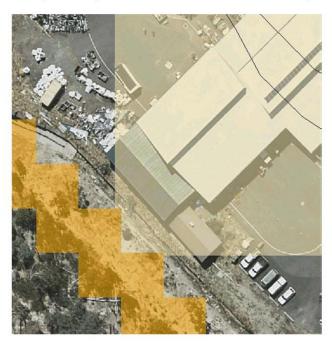


Image 2: Landslide Hazard Areas

The proposed building is exempt pursuant to exemption clause E3.4(c) however associated works are not specifically exempt (ground disturbance for slab).

The relevant standards for the works are under clause E3.7.1. There is no acceptable solution for A1. P1 states the following:

Buildings and works must satisfy all of the following:

(a) no part of the buildings and works is in a High Landslide Hazard Area;

(b) the landslide risk associated with the buildings and works is either:

(i) acceptable risk; or

(ii) capable of feasible and effective treatment through hazard management measures, so as to be tolerable risk.

No works are proposed within a High LHA in conformity with P1(a).

'Acceptable risk' is defined as 'a risk society is prepared to accept as it is. That is; without management or treatment'.

The debris flow modelling identifies the land as a potential debris flow runout area, not a source area, so the works are unlikely to increase the likelihood of a debris flow occurring. The works will also not significantly increase the consequences if a debris flow were to occur, so in my opinion, the risk associated with the works is acceptable without risk treatment.

It should also be noted that Council's internal debris flow modelling, which is considered to be more sophisticated than the State modelling, does not identify any debris flow risk on this land.

The application is considered consistent with P1 and the exercise of discretion is recommended.

Attenuation Code

The Attenuation Code applies because development for an activity listed in Table E9.1 is proposed (waste transfer station). No exemptions apply.

The relevant standards are under clause E9.7.1. Acceptable solution A1 states 'development for use with potential to cause environmental harm has a separation distance no less than the minimum attenuation distance listed in Tables E9.1 or E9.2'.

The attenuation distance for a waste transfer station is 150m and there are no sensitive uses within 150m of the proposed development site so the application complies with E9.7.1 A1.

Waterway and Coastal Protection Code

The Waterway and Coastal Protection Code applies because development is proposed within a waterway protection area. A stormwater drain is located immediately adjacent the proposed development site.



Image 3: Watercourse

No Code exemptions apply.

The relevant standard are under clause E11.7.1. The application does not comply with A1. P1 states the following:

Building and works within a Waterway and Coastal Protection Area must satisfy all of the following:

(a) avoid or mitigate impact on natural values;

(b) mitigate and manage adverse erosion, sedimentation and runoff impacts on natural values;

(c) avoid or mitigate impacts on riparian or littoral vegetation;

(d) maintain natural streambank and streambed condition, (where it exists);

(e) maintain in-stream natural habitat, such as fallen logs, bank overhangs, rocks and trailing vegetation;

(f) avoid significantly impeding natural flow and drainage;

(g) maintain fish passage (where applicable);

(h) avoid landfilling of wetlands;

(i) works are undertaken generally in accordance with 'Wetlands and Waterways Works Manual' (DPIWE, 2003) and "Tasmanian Coastal Works Manual" (DPIPWE, Page and Thorp, 2010), and the unnecessary use of machinery within watercourses or wetlands is avoided.

The watercourse is effectively a stormwater drain with minimal natural values. There should be no impact to natural values from erosion, sedimentation or runoff from the development site, provided that soil and water management measures are implemented during construction (condition recommended).

The development should have no impact on riparian vegetation, streambank condition or instream habitat.

The development should have no impact on natural flow and drainage or fish passage.

No wetlands would be impacted.

Standard soil and water management measures will ensure the works are in accordance with the Waterways and Wetlands Works Manual.

The application is considered consistent with E11.7.1 P1 and the exercise of discretion is recommended.

Recommended Conditions:

ENV 1 - SWM

Recommended Advice:

N/A

8. **REPORTS**

8.1 Monthly Building Statistics - 1 December - 31 December 2021 File Ref: F22/3040

Memorandum of the Director City Planning of 17 January 2022 and attachments.

Delegation: Council



MEMORANDUM: CITY PLANNING COMMITTEE

Monthly Building Statistics - 1 December - 31 December 2021

Attached is the Building Permit Statistics for the period 1 December - 31 December 2021.

RECOMMENDATION

That:

The Director City Planning reports:

Building Statistical Report:

During the period 1 December 2021 to 31 December 2021, 46 permits were issued to the value of \$15,427,382 which included:

- (i) 25 for extensions/alterations to dwellings to the value of \$3,734,587;
- (ii) 6 new dwellings to the value of \$2,363,195;
- (iii) 27 new multiple dwellings to the value of \$3,950,000; and
- (iv) 1 major project:
 - (a) 431 Elizabeth Street, North Hobart 27 Multiple Dwellings \$3,950,000;

During the period 1 December 2020 to 31 December 2020, 56 permits were issued to the value of \$11,649,479 which included:

- (i) 31 for extensions/alterations to dwellings to the value of \$4,509,648;
- (ii) 7 new dwellings to the value of \$2,567,000;
- (iii) 2 new multiple dwellings to the value of \$500,000; and
- (iv) 0 major projects:

In the twelve months ending December 2021, 608 permits were issued to the value of \$254,943,922; and

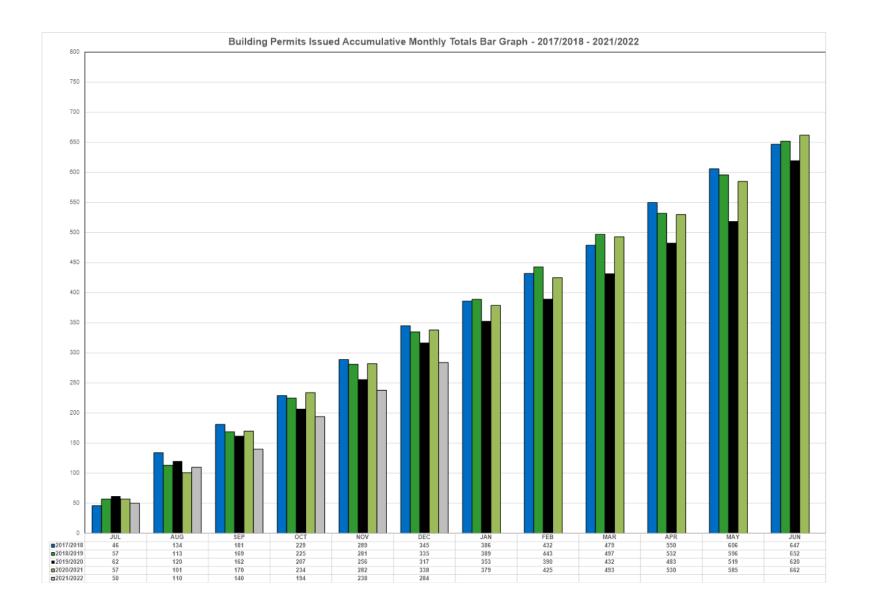
In the twelve months ending December 2020, 641 permits were issued to the value of \$180,406,244.

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

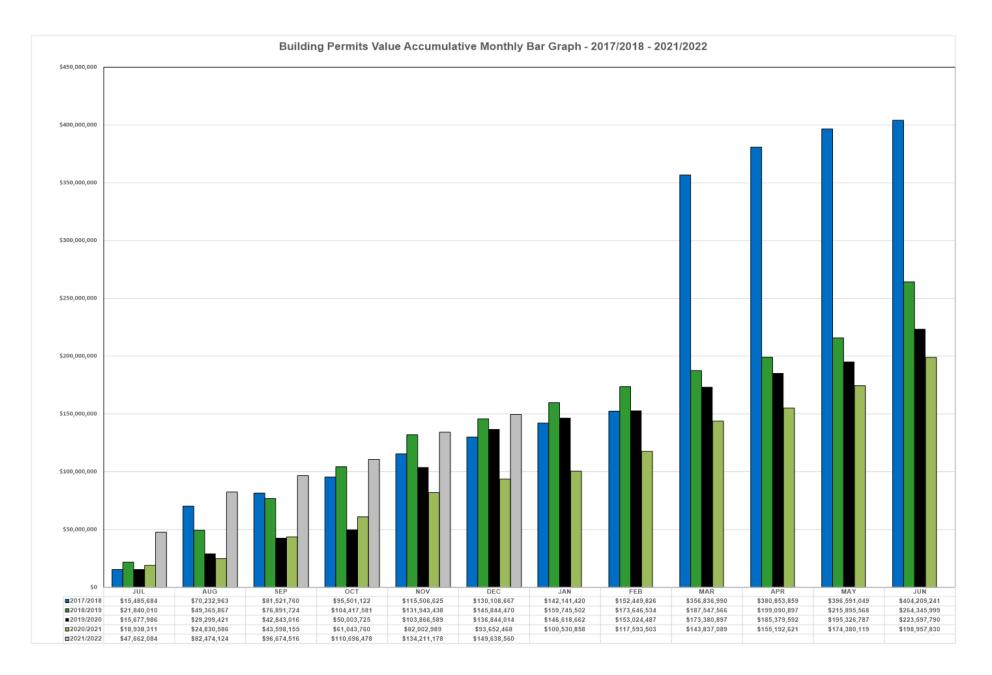
Neil Noye DIRECTOR CITY PLANNING

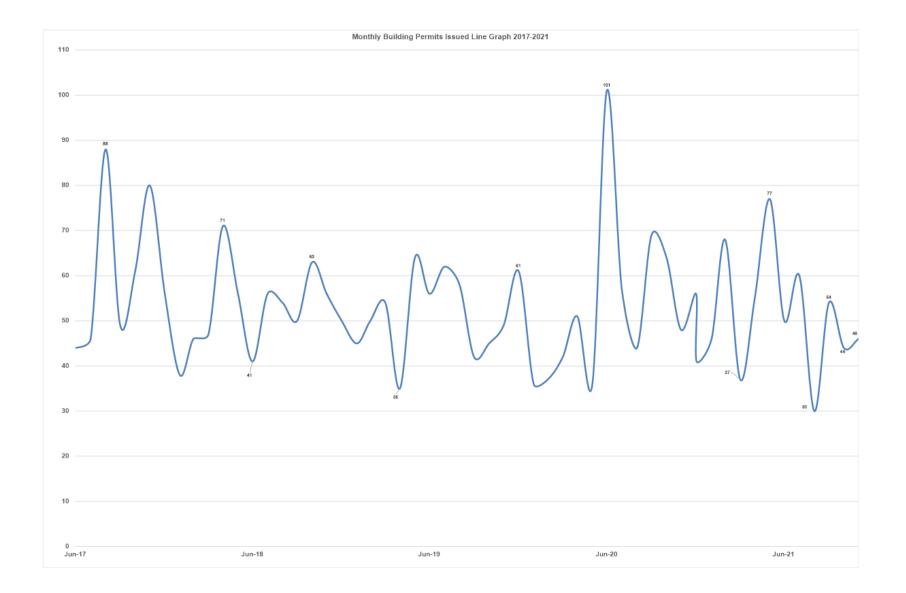
Date: File Reference:	17 January 2022 F22/3040
Attachment A:	Building Permits Issued Accumulative Monthly Totals Bar Graph - Dec 2021 I Table
Attachment B:	Building Permits Value Accumulative Monthly Bar Graph Dec 2021 I
Attachment C:	Monthly Building Permits Issued Line Graph Dec 2021 🖟 🛣
Attachment D:	Value of Monthly Building Permits Issued Line Graph Dec 2021

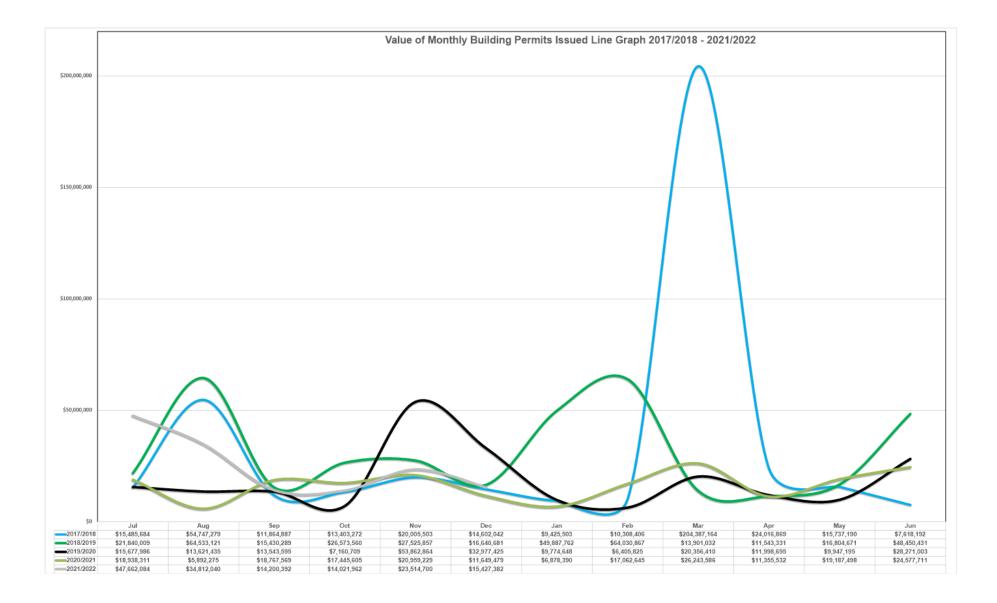
Page 618 ATTACHMENT A











8.2 Monthly Planning Statistics - 1 December - 31 December 2021 File Ref: F22/3062

Memorandum of the Director City Planning of 18 January 2022 and attachments.

Delegation: Council



MEMORANDUM: CITY PLANNING COMMITTEE

Monthly Planning Statistics - 1 December - 31 December 2021

Attached is the Planning Permit statistics for the period 1 December 2021 – 31 December 2021

RECOMMENDATION

That:

The Director City Planning reports:

Planning Statistical Report:

During the period 1 December 2021 to 31 December 2021, 65 permits were issued to the value of \$58,775,140 which included:

- (i) 6 new single dwellings to the value of \$3,380,000;
- (ii) 1 multiple dwellings to the value of \$100,000;
- (iii) 25 extensions/alterations to dwellings to the value of \$3,252,204;
- (iv) 13 extensions/alterations to commercial properties to the value of \$27,507,136;
- (v) 2 major projects:
 - (a) 225 Harrington Street, Hobart Partial Demolition, Alterations, New Building for Residential (Hostel), Alterations to Access and Associated Works - \$16,000,000;
 - (b) 87-91 Campbell Street, Hobart Partial Demolition, Alterations, Extension and New Building for Residential (Communal Residence), Educational and Occasional Care, and Food Services - \$9,863,636;

During the period 1 December 2020 to 31 December 2020, 82 permits were issued to the value of \$31,591,689 which included:

- (i) 10 new single dwellings to the value of \$3,954,000;
- (ii) 19 multiple dwellings to the value of \$6,997,000;
- (iii) 43 extensions/alterations to dwellings to the value of \$7,458,964;
- (iv) 11 extensions/alterations to commercial properties to the value of \$12,992,060;
- (v) 3 major projects:
 - (a) 23 Commercial Road, North Hobart Partial Demolition, Alterations, Extension, New Building for Educational and Occasional Care (Gymnasium), Signage and Associated Works - \$9,400,000;
 - (b) 30 Romilly Street, South Hobart Subdivision (Boundary Adjustment), 10 Multiple Dwellings (Nine New, One Existing), Works in Road Reserve and Associated Hydraulic Infrastructure - \$3,600,000;
 - (c) 125 Bathurst Street, Hobart Partial Demolition and New Building for Seven Multiple Dwellings and Food Services - \$3,000,000;

In the twelve months ending December 2021, 735 permits were issued to the value of \$284,761,309; and

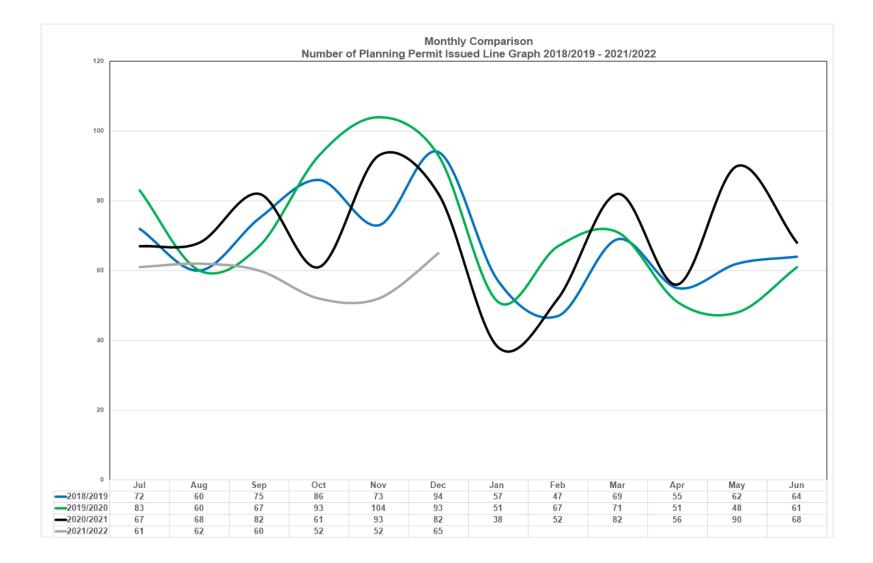
In the twelve months ending December 2020, 802 permits were issued to the value of \$300,100,753.

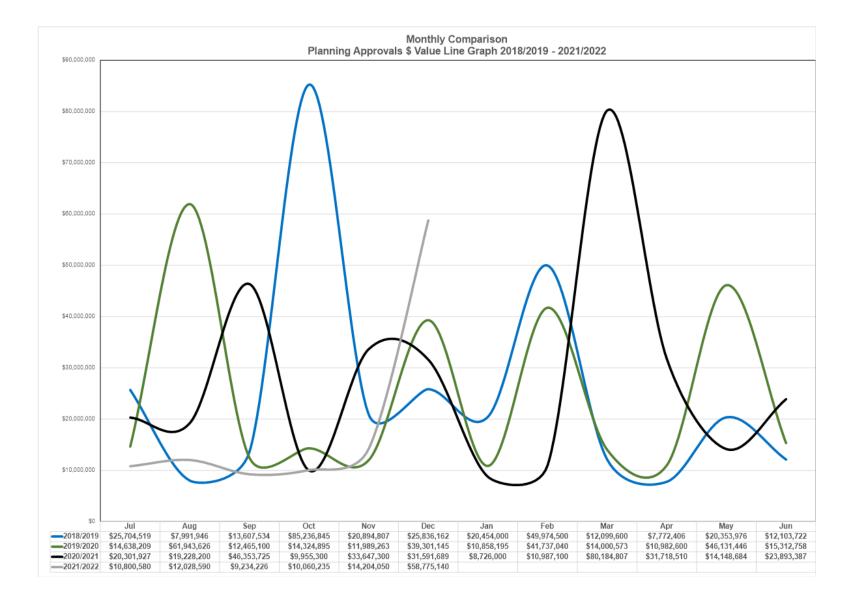
This report includes permits issued, exempt and no permit required decisions. As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

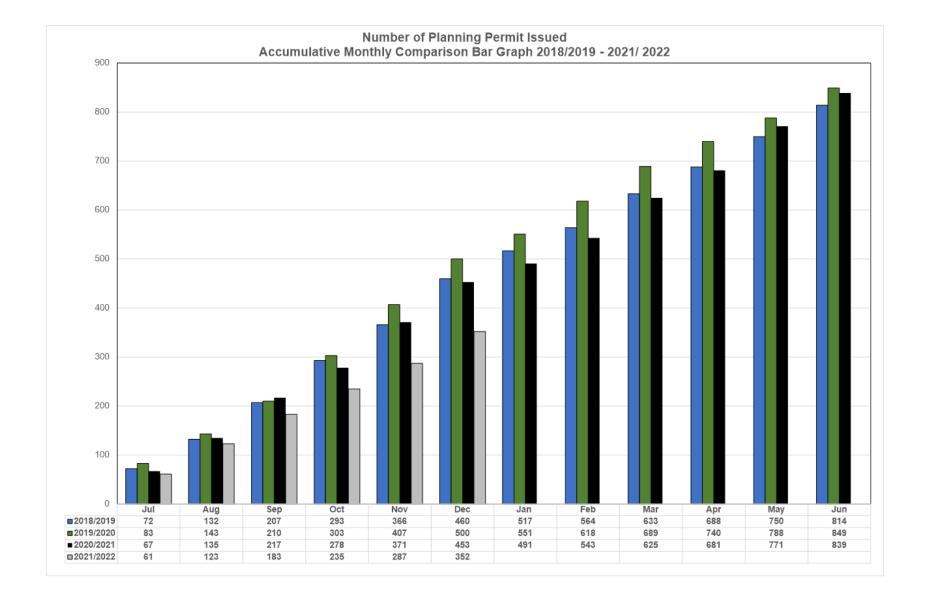
Neil Noye DIRECTOR CITY PLANNING

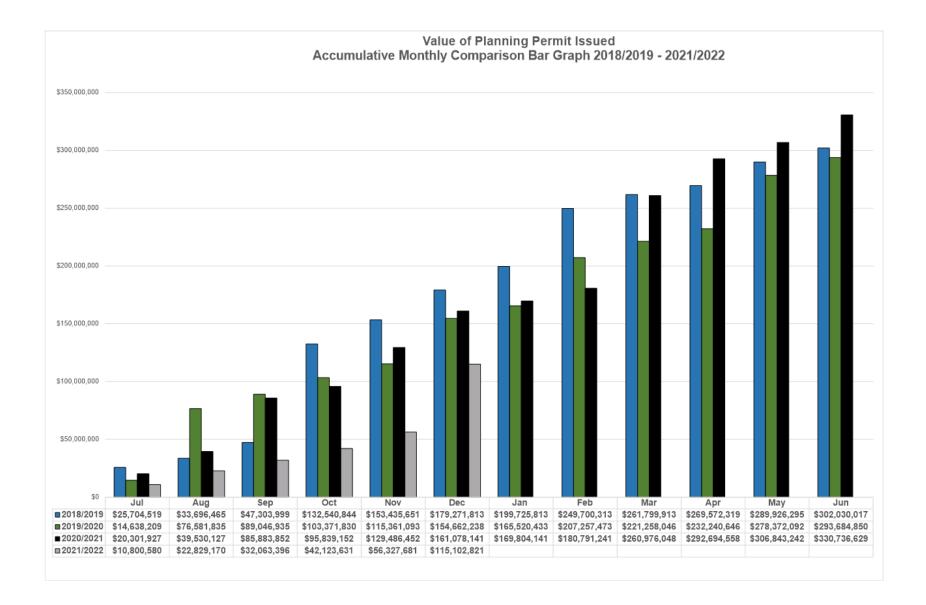
Date:18 January 2022File Reference:F22/3062

Attachment A:	Monthly Compariso, I Number of Planning Permit Issued Line Graph Dec 2021 ↓
Attachment B:	Monthly Comparison Planning Approvals Value Line Graph Dec 2021 I
Attachment C:	Number of Planning Permit Issued Accumulative Monthly Comparison Bar Graph Dec 2021 I 🖫 📸
Attachment D:	Value of Planning Permit Issued Bar Graph Dec 2021 🎚 🖀









8.3 Delegated Decision Report (Planning) File Ref: F22/4774

Memorandum of the Director City Planning of 18 January 2022 and attachment.

Delegation: Committee



MEMORANDUM: CITY PLANNING COMMITTEE

Delegated Decision Report (Planning)

Attached is the delegated planning decisions report for the period 6 December 2021 to 14 January 2022.

RECOMMENDATION

That:

1. That the information be received and noted.

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Neil Noye DIRECTOR CITY PLANNING

Date:	18 January 2022
File Reference:	F22/4774

Attachment A: Delegated Decision Report (Planning) I 🖫

_

18 January 2022

Delegated Decisions Report (Planning)

57 applications found.				Approved All
Planning Description	Address	Works Value	Decision	Authority
PLN-20-911 Partial Demolition and New Building for Visitor Accommodation, Hotel Industry, Food Services, and Community Meeting and Entertainment, and Associated Works	79 COLLINS STREET HOBART TAS 7000	\$ 22,000,000	Approved	Delegated
PLN-21-115 Alterations to Driveway and Car Parking	141 HAMPDEN ROAD HOBART TAS 7000	\$ 50,000	Approved	Delegated
PLN-21-476 Partial Demolition, Alterations, Signage, and Alterations to Car Parking	336 ELIZABETH STREET NORTH HOBART TAS 7000	\$ 300,000	Approved	Delegated
PLN-21-537 Partial Change of Use to Food Services	41 BARRACK STREET HOBART TAS 7000	\$ 70,000	Approved	Delegated
PLN-21-588 Dwelling	16 MCDEVITT AVENUE DYNNYRNE TAS 7005	\$ 320,000	Approved	Delegated
PLN-21-604 Dwelling	16 TABART STREET NEW TOWN TAS 7008	\$ 500,000	Approved	Delegated
PLN-21-610 Partial Demolition, Alterations and Change of Use to Three Multiple Dwellings (Two Existing, One New)	28 CROSS STREET NEW TOWN TAS 7008	\$ 100,000	Approved	Delegated
PLN-21-613 Dwelling	11 DATE COURT SANDY BAY TAS 7005	\$ 1,360,000	Approved	Delegated
PLN-21-615 Alterations	44-46 HAMPDEN ROAD BATTERY POINT TAS 7004	\$ 7,000	Approved	Delegated
PLN-21-617 Partial Demolition and Ancillary Dwelling	35 MELLIFONT STREET WEST HOBART TAS 7000	\$ 200,000	Approved	Delegated
PLN-21-639 Demolition and Outbuilding	13A BEDFORD STREET NEW TOWN TAS 7008	\$ 30,000	Approved	Delegated
PLN-21-646 Partial Demolition, Alterations and Extension	88 SWANSTON STREET NEW TOWN TAS 7008	\$ 500,000	Approved	Delegated
PLN-21-660 Partial Demolition, Alterations, Extension, Outbuilding (Workshop/Studio), Swimming Pool, and Front Fencing	4A D'ARCY STREET SOUTH HOBART TAS 7004	\$ 500,000	Approved	Delegated
PLN-21-662 Change of Use to Hotel Industry and Signage	91-93 MACQUARIE STREET HOBART TAS 7000	\$ 7,500	Approved	Delegated
PLN-21-674 Front Fencing	5 FORBES AVENUE WEST HOBART TAS 7000	\$ 1,800	Approved	Delegated
PLN-21-684 Partial Demolition, Alterations, and Extension	1/344-346 SANDY BAY ROAD SANDY BAY TAS 7005	\$ 500,000	Approved	Delegated
PLN-21-700 Food Services and Outdoor Dining	41 FORSTER STREET NEW TOWN TAS 7008	\$ 2,000	Approved	Delegated
PLN-21-709 Signage	40 ELIZABETH STREET HOBART TAS 7000	\$ 0	Approved	Delegated
PLN-21-721 Partial Demolition, Alterations and Extension	1/320B STRICKLAND AVENUE SOUTH HOBART TAS 7004	\$ 120,000	Approved	Delegated
PLN-21-722 Partial Demolition, Alterations and Extension	228 WARWICK STREET WEST HOBART TAS 7000	\$ 200,000	Approved	Delegated
PLN-21-723 Signage	209 BRISBANE STREET WEST HOBART TAS 7000	\$ 0	Approved	Delegated
PLN-21-725 Signage	71 RISDON ROAD NEW TOWN TAS 7008	\$ 0	Approved	Delegated
PLN-21-726 Garage	60A CASCADE ROAD SOUTH HOBART TAS 7004	\$ 100,000	Approved	Delegated
PLN-21-730 Alterations	7 PAVIOUR STREET NEW TOWN TAS 7008	\$ 15,000	Approved	Delegated

CITY OF HOBART

Planning Description	Address	Works Value	Decision	Authority
PLN-21-731 Dwelling	10 TABART STREET NEW TOWN TAS 7008	\$ 400,000	Approved	Delegated
2LN-21-735 Partial Demolition, Alterations and Extension	2/105 LETITIA STREET NORTH HOBART TAS 7000	\$ 125,000	Approved	Delegated
PLN-21-737 Alterations	97 GOULBURN STREET WEST HOBART TAS 7000	\$ 8,000	Approved	Delegated
PLN-21-738 Carport	654A SANDY BAY ROAD SANDY BAY TAS 7005	\$ 40,000	Approved	Delegated
2LN-21-744 Partial Demolition, Alterations and Extension	107 PATRICK STREET WEST HOBART TAS 7000	\$ 200,000	Approved	Delegated
2LN-21-751 Partial Demolition, Alterations, Extension & Ancillary Dwelling	78 NEWDEGATE STREET WEST HOBART TAS 7000	\$ 550,000	Approved	Delegated
2LN-21-753 2artial Demolition, Alterations and Extension	107 NEW TOWN ROAD NEW TOWN TAS 7008	\$ 450,000	Approved	Delegated
2LN-21-758 Partial Demolition and Alterations	15 COLVILLE STREET BATTERY POINT TAS 7004	\$ 90,000	Approved	Delegated
2LN-21-760 Extension to Operating Hours	37 ELIZABETH STREET HOBART TAS 7000	\$ 0	Approved	Delegated
2LN-21-761 Partial Demolition, Alterations and Decks	82 FOREST ROAD WEST HOBART TAS 7000	\$ 150,000	Approved	Delegated
LN-21-762 Iterations and Front Fencing	101-103 HARRINGTON STREET HOBART TAS 7000	\$ 1,500	Approved	Delegated
LN-21-765 lartial Change of Use to Visitor .ccommodation	56/8 DAVEY PLACE SOUTH HOBART TAS 7004	\$ 12,000	Approved	Delegated
2LN-21-768 Partial Demolition, Alterations and Extension	338 ELIZABETH STREET NORTH HOBART TAS 7000	\$ 200,000	Approved	Delegated
PLN-21-773 Partial Demolition and Alterations	31-35 SALAMANCA PLACE BATTERY POINT TAS 7004	\$ 7,500	Approved	Delegated
PLN-21-776 Iterations, Partial Change of Use to ating Establishment, and Signage	34 DAVEY STREET HOBART TAS 7000	\$ 50,000	Approved	Delegated
PLN-21-777 Archaeological Works	118-124 BATHURST STREET HOBART TAS 7000	\$ 100,000	Approved	Delegated
LN-21-780 lartial Demolition, Alterations and ixtension	102 KING STREET SANDY BAY TAS 7005	\$ 95,000	Approved	Delegated
2LN-21-785 Partial Demolition, Alterations and Extension	437 CHURCHILL AVENUE SANDY BAY TAS 7005	\$ 250,000	Approved	Delegated
2LN-21-786 Partial Demolition, Alterations and Extension	95 HILL STREET WEST HOBART TAS 7000	\$ 80,000	Approved	Delegated
PLN-21-789 Partial Demolition and Alterations and Change of Use to Dwelling	155 NEW TOWN ROAD NEW TOWN TAS 7008	\$ 50,000	Approved	Delegated
PLN-21-790 Iterations and Extension to Dutbuilding	2 SATCHELL DRIVE KINGSTON TAS 7050	\$ 15,000	Approved	Delegated
LN-21-792 Dutbuilding	2A D'ARCY STREET SOUTH HOBART TAS 7004	\$ 30,000	Approved	Delegated
LN-21-799 eck Extension	31 D'ARCY STREET SOUTH HOBART TAS 7004	\$ 3,000	Approved	Delegated
LN-21-806 lartial Demolition, Alterations and ixtension	24 ALLAMBEE CRESCENT GLEBE TAS 7000	\$ 150,000	Approved	Delegated
LN-21-811 Iterations (Solar Panels)	83 BROOKER AVENUE GLEBE TAS 7000	\$ 2,370	Approved	Delegated
LN-21-812 Iterations	3/38 CUTHBERTSON PLACE LENAH VALLEY TAS 7008	\$ 23,204	Approved	Delegated

CITY OF HOBART

Planning Description	Address	Works Value	Decision	Authority
PLN-21-817 Signage	90-92 MURRAY STREET HOBART TAS 7000	\$ 0	Approved	Delegated
PLN-21-818 Extension to Operating Hours	73 COLLINS STREET HOBART TAS 7000	\$ 0	Approved	Delegated
PLN-21-824 Change of Use to Visitor Accommodation	2 BAY ROAD (CT 162241/1) NEW TOWN TAS 7008	\$ 0	Approved	Delegated
PLN-21-828 Partial Demolition, Alterations and Extension	116A FOREST ROAD WEST HOBART TAS 7000	\$ 180,000	Approved	Delegated
PLN-21-832 Partial Demolition, Alterations and Extension	29 CROMWELL STREET BATTERY POINT TAS 7004	\$ 450,000	Approved	Delegated
PLN-21-836 Change of Use to Visitor Accommodation	169 GOULBURN STREET WEST HOBART TAS 7000	\$ 0	Approved	Delegated
PLN-21-853 Change of Use to Visitor Accommodation	1/66A MONTAGU STREET NEW TOWN TAS 7008	\$ 0	Approved	Delegated

CITY OF HOBART

8.4 City Planning - Advertising Report File Ref: F22/5228

Memorandum of the Director City Planning of 19 January 2022 and attachment.

Delegation: Committee



MEMORANDUM: CITY PLANNING COMMITTEE

City Planning - Advertising Report

Attached is the advertising list for the period 6 December 2021 to 14 January 2022.

RECOMMENDATION

That:

1. That the information be received and noted.

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.

Neil Noye DIRECTOR CITY PLANNING

Date:	19 January 2022
File Reference:	F22/5228

Attachment A: City Planning - Advertising Report I 🛣

Application	Street	Suburb	Development	Works Value	Expiry Date	Referral	Proposed Delegation	Advertising Period Start	Advertising Period End
			Partial Demolition,						
			Alterations,						
			Extension,						
			Outbuilding						
			(Workshop/Studio),						
	4 A D'ARCY		Swimming Pool, and						
PLN-21-660	STREET	SOUTH HOBART	Front Fencing	\$500,000	29/12/2021	ayersh	Director	07/12/2021	21/12/2021
	1 / 320 B		Partial Demolition,						
	STRICKLAND		Alterations and						
PLN-21-721	AVENUE	SOUTH HOBART	Extension	\$120,000	31/12/2021	ayersh	Director	07/12/2021	21/12/2021
	91 - 93		Change of Use to						
	MACQUARIE		Hotel Industry and						
PLN-21-662		HOBART	Signage	\$7,500	27/12/2021	ayersh	Director	08/12/2021	22/12/2021
	251 DAVEY								
PLN-21-513	STREET	SOUTH HOBART	Outbuilding	\$150,000	30/12/2021	ayersh	Director	09/12/2021	23/12/2021
	90 - 92								
	MURRAY								
PLN-21-817	STREET	HOBART	Signage	\$0	11/01/2022	ayersh	Director	16/12/2021	06/01/2022
			Partial Demolition,						
			Alterations,						
			Extension, Front						
			Fencing, Garage,						
			Alterations to				Council		
	1 - 7 CEDAR		Access, and				(Council		
PLN-21-388	COURT	SANDY BAY	Associated Works	\$850,000	26/01/2022	ayersh	Land)	17/12/2021	07/01/2022
			Partial Demolition,						
	24 ALLAMBEE		Alterations and						
PLN-21-806	CRESCENT	GLEBE	Extension	\$150,000	22/01/2022	ayersh	Director	21/12/2021	11/01/2022
			Partial Demolition,						
	26 WEERONA		Alterations and						
PLN-21-802		MOUNT STUART	Extension	\$600,000	27/02/2022	ayersh	Director	10/01/2022	24/01/2022
	30 FISHER		Driveway and						
PLN-20-611	AVENUE	SANDY BAY	Carparking	\$20,000	24/01/2022	baconr	Director	17/12/2021	07/01/2022
			Public Art						
PLN-21-871	85 CREEK ROAD	NEW TOWN	Installation	\$70,000	14/02/2022	baconr	Director	10/01/2022	24/01/2022

Application	Street	Suburb	Development	Works Value	Expiry Date	Referral	Proposed Delegation	Advertising Period Start	Advertising Period End
			Partial Demolition,						
	1/816 SANDY		Alterations, and				Council		
PLN-21-454	BAY ROAD	SANDY BAY	Extension	\$140,000	22/02/2022	langd	(Objection)	07/12/2021	21/12/2021
	31 D'ARCY								
PLN-21-799	STREET	SOUTH HOBART	Deck Extension	\$3,000	13/01/2022	langd	Director	07/12/2021	21/12/2021
			Partial Demolition,						
	109 MARLYN		Alterations, and						
PLN-21-708	ROAD	SOUTH HOBART	Driveway	\$325,000	18/01/2022	langd	Director	16/12/2021	06/01/2022
			Partial Demolition,						
	796 HUON		Alterations, and						
PLN-21-637		FERN TREE	Extension	\$100,000	26/02/2022	langd	Director	10/01/2022	24/01/2022
	9 / 1 A SAYER		Visitor						
PLN-21-745	CRESCENT	SANDY BAY	Accommodation	\$0	28/02/2022	maxwellv	Director	10/01/2022	24/01/2022
			Partial Demolition,						
	51 / 19 A		Alterations and						
	HUNTER		Change of Use to						
PLN-21-821	STREET	HOBART	Consulting Rooms	\$150,000	03/03/2022	maxwellv	Director	10/01/2022	24/01/2022
			Partial Demolition,						
			Alterations,						
	9 OSBORNE		Extension and						
PLN-21-841	STREET	SANDY BAY	Ancillary Dwelling	\$40,000	14/02/2022	maxwellv	Director	10/01/2022	24/01/2022
	293								
	MACQUARIE								
PLN-21-845	STREET	HOBART	Signage	\$0	28/02/2022	maxwellv	Director	10/01/2022	24/01/2022
			Demolition, New						
			Building for 7						
			Multiple Dwellings,				Council		
	345 SANDY BAY		and Associated				(Council		
PLN-21-580	ROAD	SANDY BAY	Works	\$5,000,000	07/02/2022	maxwellv	Land)	13/01/2022	28/01/2022
	164								
	HARRINGTON								
PLN-21-798	STREET	HOBART	Alterations	\$50,000	19/02/2022	maxwellv	Director	13/01/2022	28/01/2022
			Partial Demolition,						
	228 WARWICK		Alterations and						
PLN-21-722		WEST HOBART	Extension	\$200,000	10/01/2022	mcclenahanm	Director	09/12/2021	23/12/2021
	8 LIPSCOMBE		Partial Demolition &						
PLN-21-781	AVENUE	SANDY BAY	Alterations	\$100,000	19/01/2022	mcclenahanm	Director	13/12/2021	02/01/2022

Application	Street	Suburb	Development	Works Value	Expiry Date	Referral	Proposed Delegation	Advertising Period Start	Advertising Period End
	1/344 - 346		Partial Demolition,						
	SANDY BAY		Alterations, and						
PLN-21-684	ROAD	SANDY BAY	Extension	\$500,000	07/01/2022	mcclenahanm	Director	14/12/2021	04/01/2022
	60 A CASCADE								
PLN-21-726	ROAD	SOUTH HOBART	Garage	\$100,000	12/02/2022	mcclenahanm	Director	16/12/2021	06/01/2022
			Community Shed						
	64 ANGLESEA		and Alterations to						
PLN-21-629	STREET	SOUTH HOBART	Carparking	\$700,000	14/01/2022	mcclenahanm	Director	21/12/2021	11/01/2022
			Six Multiple						
	63 - 83 CREEK		Dwellings and						
PLN-21-707		NEW TOWN	Associated Works	\$1,500,000	18/01/2022	mcclenahanm	Director	23/12/2021	13/01/2022
	1 / 66 A		Change of Use to						
	MONTAGU		Visitor						
PLN-21-853		NEW TOWN	Accommodation	\$0	29/01/2022	mcclenahanm	Director	23/12/2021	13/01/2022
	89 DOYLE								
PLN-21-514	AVENUE	LENAH VALLEY	Dwelling	\$250,000	28/02/2022	mcclenahanm	Director	10/01/2022	24/01/2022
			Partial Demolition,						
			Alterations,						
	519 NELSON		Extension and						
PLN-21-800	ROAD	MOUNT NELSON	Carport	\$200,000	27/01/2022	mcclenahanm	Director	10/01/2022	24/01/2022
			Partial Demolition,						
	481		Alterations,						
	MACQUARIE		Extension and						
PLN-21-372		SOUTH HOBART	Garage	\$350,000	30/01/2022	mcclenahanm	Director	12/01/2022	27/01/2022
	14 SMITHURST		Partial Demolition						
PLN-21-804	AVENUE	SOUTH HOBART	and Alterations	\$20,000	03/03/2022	mcclenahanm	Director	12/01/2022	27/01/2022
	118 - 124								
	BATHURST		Archaeological						
PLN-21-777	STREET	HOBART	Works	\$100,000	04/01/2022	obrienm	Director	13/12/2021	02/01/2022
			Partial Demolition,						
	37 PITT		Alterations, and						
PLN-21-461	STREET	NORTH HOBART	Extension	\$150,000	19/08/2021	obrienm	Director	14/12/2021	04/01/2022
			Partial Demolition,						
	107 PATRICK		Alterations and						
PLN-21-744	STREET	WEST HOBART	Extension	\$200,000	17/01/2022	obrienm	Director	23/12/2021	13/01/2022

Application	Street	Suburb	Development	Works Value	Expiry Date	Referral	Proposed Delegation	Advertising Period Start	Advertising Period End
			Partial Demolition,						
	5 SHARPS		Alterations and						
PLN-21-759	ROAD	LENAH VALLEY	Extension	\$180,000	24/01/2022	obrienm	Director	10/01/2022	24/01/2022
	2 A D'ARCY								
PLN-21-792	STREET	SOUTH HOBART	Outbuilding	\$30,000	31/12/2021	sherriffc	Director	07/12/2021	21/12/2021
			Partial Demolition,						
	78		Alterations,						
	NEWDEGATE		Extension &						
PLN-21-751	STREET	WEST HOBART	Ancillary Dwelling	\$550,000	15/01/2022	sherriffc	Director	13/12/2021	02/01/2022
			Partial Demolition,						
	116 A FOREST		Alterations and						
PLN-21-828	ROAD	WEST HOBART	Extension	\$180,000	20/01/2022	sherriffc	Director	16/12/2021	06/01/2022
			Partial Demolition,						
	29 CROMWELL		Alterations and						
PLN-21-832	STREET	BATTERY POINT	Extension	\$450,000	18/01/2022	sherriffc	Director	17/12/2021	07/01/2022
			Alterations and						
	2 SATCHELL		Extension to						
PLN-21-790	DRIVE	KINGSTON	Outbuilding	\$15,000	15/01/2022	sherriffc	Director	21/12/2021	11/01/2022
	45 DAVEY		Alterations (Solar						
PLN-21-846	STREET	HOBART	Panels)	\$19,500	04/02/2022	sherriffc	Director	10/01/2022	24/01/2022
			Partial Demolition,						
	5 EURELLA		Alterations,						
PLN-21-829	AVENUE	SANDY BAY	Extension	\$200,000	25/01/2022	sherriffc	Director	10/01/2022	24/01/2022
	10 EVANS								
PLN-21-844	STREET	HOBART	Partial Demolition	\$30,000	17/02/2022	sherriffc	Director	10/01/2022	24/01/2022
			Demolition and						
	5 ALEXANDER		Three Multiple						
PLN-21-643	STREET	SANDY BAY	Dwellings	\$1,000,000	27/01/2022	sherriffc	Director	13/01/2022	28/01/2022
	486 A HUON								
PLN-21-317	ROAD	SOUTH HOBART	Extension	\$170,000	15/02/2022	smeea	Director	13/12/2021	02/01/2022
	25 DOWDING								
PLN-21-593		NEW TOWN	Dwelling	\$456,941	28/01/2022	smeea	Director	10/01/2022	24/01/2022
	20/37 - 39		Change of Use to						
	CAMPBELL		Visitor						
PLN-21-859	STREET	HOBART	Accommodation	\$0	01/02/2022	smeea	Director	10/01/2022	24/01/2022

Application	Street	Suburb	Development	Works Value	Expiry Date	Referral	Proposed Delegation	Advertising Period Start	Advertising Period End
			Partial Demolition,						
			Alterations, Partial						
			Change of Use to						
			Business and						
			Professional						
	232 - 242		Services and				Council		
	LIVERPOOL		General Retail and				(Council		
PLN-21-649	STREET	HOBART	Hire, and Signage	\$200,000	01/02/2022	smeea	Land)	13/01/2022	28/01/2022
	13 A BEDFORD		Demolition and						
PLN-21-639	STREET	NEW TOWN	Outbuilding	\$30,000	13/01/2022	widdowsont	Director	08/12/2021	22/12/2021
	31 - 35								
	SALAMANCA		Partial Demolition						
PLN-21-773	PLACE	BATTERY POINT	and Alterations	\$7,500	15/01/2022	widdowsont	Director	09/12/2021	23/12/2021
	73 COLLINS		Extension to						
PLN-21-818	STREET	HOBART	Operating Hours	\$0	12/01/2022	widdowsont	Director	14/12/2021	04/01/2022
	41 FORSTER		Food Services and						
PLN-21-700	STREET	NEW TOWN	Outdoor Dining	\$2,000	14/01/2022	widdowsont	Director	16/12/2021	06/01/2022
	83 BROOKER		Alterations (Solar						
PLN-21-811	AVENUE	GLEBE	Panels)	\$2,370	11/01/2022	widdowsont	Director	17/12/2021	07/01/2022
	26 QUEEN								
PLN-21-827	STREET	SANDY BAY	Alterations	\$8,500	03/02/2022	widdowsont	Director	10/01/2022	24/01/2022

9. QUESTIONS WITHOUT NOTICE

Section 29 of the *Local Government (Meeting Procedures) Regulations 2015.* File Ref: 13-1-10

An Elected Member may ask a question without notice of the Chairman, another Elected Member, the Chief Executive Officer or the Chief Executive Officer's representative, in line with the following procedures:

- 1. The Chairman will refuse to accept a question without notice if it does not relate to the Terms of Reference of the Council committee at which it is asked.
- 2. In putting a question without notice, an Elected Member must not:
 - (i) offer an argument or opinion; or
 - (ii) draw any inferences or make any imputations except so far as may be necessary to explain the question.
- 3. The Chairman must not permit any debate of a question without notice or its answer.
- 4. The Chairman, Elected Members, Chief Executive Officer or Chief Executive Officer's representative who is asked a question may decline to answer the question, if in the opinion of the respondent it is considered inappropriate due to its being unclear, insulting or improper.
- 5. The Chairman may require a question to be put in writing.
- 6. Where a question without notice is asked and answered at a meeting, both the question and the response will be recorded in the minutes of that meeting.
- 7. Where a response is not able to be provided at the meeting, the question will be taken on notice and
 - (i) the minutes of the meeting at which the question is asked will record the question and the fact that it has been taken on notice.
 - (ii) a written response will be provided to all Elected Members, at the appropriate time.
 - (iii) upon the answer to the question being circulated to Elected Members, both the question and the answer will be listed on the agenda for the next available ordinary meeting of the committee at which it was asked, where it will be listed for noting purposes only.

10. CLOSED PORTION OF THE MEETING

That the Committee resolve by majority that the meeting be closed to the public pursuant to regulation 15(1) of the *Local Government (Meeting Procedures) Regulations 2015* because the items included on the closed agenda contain the following matters:

- Confirm the minutes of the Closed poroitn of the meeting
- Questions without notice in the Closed portion
- Planning Appeals

The following items were discussed: -

Item No. 1	Minutes of the last meeting of the Closed Portion of the
	Committee Meeting
Item No. 2	Consideration of supplementary items to the agenda
Item No. 3	Indications of pecuniary and conflicts of interest
Item No. 4	Planning Authority Items – Consideration of Items with
	Deputations
Item No. 5	City Acting as Planning Authority
Item No. 5.1	Applications under the Hobart Interim Planning Scheme 2015
Item No. 5.1.1	PLN-20-868 - 2 Sayer Crescent Sandy Bay - Appeal
	LG(MP)R 15(4)(a)
Item No. 5.1.2	PLN-21-559 - 66 Alexander Street, Sandy Bay - Appeal -
	Mediation
	LG(MP)R 15(4)(a)
Item No. 6	Questions Without Notice